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# Twenty-third Annual Report

*of the*

University of Illinois  
Health Service


1938-39



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Monthly Progress Report  
1959-1960



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UNIVERSITY OF ILLINOIS  
HEALTH SERVICE

Departments in Urbana Champaign

Twenty-Third Annual Report  
1938-1939

J. HOWARD BEARD, M.D., HEALTH OFFICER

Urbana, Illinois  
1939

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## GENERAL INTRODUCTION

It is now generally recognized that health is a fundamental factor in the training and preparation for citizenship because it largely determines the effectiveness and conduct which make for social usefulness and the state of mind called success and happiness. Health is, therefore, the first prerequisite of every educational program. In keeping with this fact, the Health Service of the University of Illinois fosters its program of health instruction and prevention of disease through physical examinations, personal conferences, classroom instruction, demonstrations of disease control, and a sustained effort to provide safe and sanitary surroundings in which students can live, learn, and play.

With health as with textiles, taking the "stitch in time" saves nine. For this reason, the facilities of the Health Service are open to all students who seek information concerning any matter pertaining to their personal well being, the health of the community, or modern medicine and sanitation. Such advice may be a suggestion that a specialist be consulted, a certain diet followed, or a working schedule modified to provide more rest and recreation. It may point to means for better adjustment, urge the student to go to the hospital for prompt attention to insure early recovery and to avoid complications, or it may take the form of references





to plans for a safe rural water supply or disposal of domestic sewage.

The most striking occurrence of the year was the sudden appearance of an epidemic of upper respiratory infection showing the characteristics of mild influenza. Although some 817 students had the disease, few grave complications developed and no deaths occurred. Otherwise the morbidity rate among students during the year was low and reflected the good health of the population throughout the country.

As in the past, an upperclassman continues to make fewer visits to the Health Service than does a freshman. Better adjustment to environment and greater knowledge as to how to care for his health decreases illness among upperclassmen.

The second year of the existence of the Champaign-Urbana Public Health District is bringing improvement in the local milk supply and in the sanitation of lunch rooms and confectionaries. The sustained efforts of the local health department to control communicable disease in the Twin Cities, to provide a safe, clean milk supply, and to enforce State and local laws pertaining to eating places in the student district are a most welcome contribution to the protection of the health of the University population.

Drs. Helen M. Lynch and E. A. Thacker did not renew their contracts with the University. Dr. Lynch married a former member of the faculty, and Dr. Thacker is specializing



in diseases of the eye. Their withdrawal from the Health Service staff was a real loss. Both were well trained, able, loyal, and much admired by the students.

By action of the Trustees of the University on October 14, 1938, a closer relationship between the McKinley Hospital and the Health Service was made effective by the Health Officer of the University being made its Administrative Officer.

On March 27, 1939, by action of the Board of Trustees, the Health Service Department of the three Chicago Colleges was made a part of the general Health Service of the University under the supervision of the University Health Officer.

The Health Service has outgrown its quarters. Lack of adequate space in the present building has become a real problem. As the years have gone by, increase in enrollment and duties assigned to the department have caused the demand for office space to exceed its capacity. Although excellently located, the present house was built for a dwelling and is not especially fitted for the offices of physicians.

The Health Service has enjoyed and acknowledges with gratitude the cordial cooperation given it by the officials and physicians of the Twin Cities in looking after the health



of students. It is under great obligation to the deans and directors of the various colleges and schools of the University and its general administrative officers for the valuable aid it has received in the performance of its duties.











## VISITS

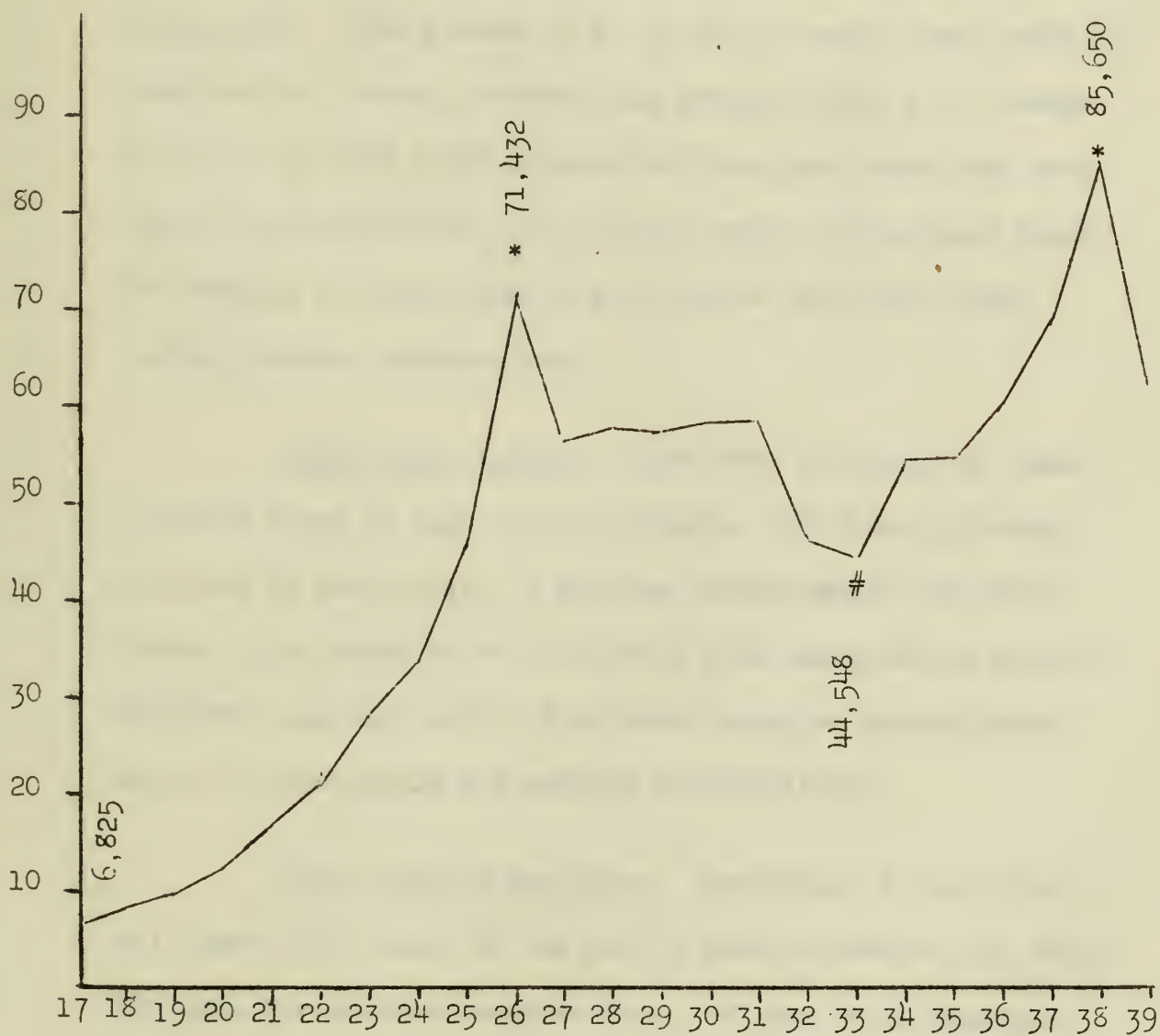
The total registration of the University for the academic year 1938-39 in the Urbana Departments as reported by the Registrar was 13,380. The records of the Health Service for the academic year show that 58,879 visits were made by students for examinations, conferences and advice, an average of more than 4 visits for each student. In addition, there were 1,797 visits by University employees and 202 miscellaneous calls, making a grand total of 60,878 visits. Of the total visits, 5,108 were made because of the required physical examinations of all new students upon entrance to the University. Of these, 2,328 students or 45.6% were re-examined.

The men of the class of 1942 called 20,427 times, an average of 6.2 calls per man; the women called 6,976 times, or 5.17 calls per woman. The average for upperclassmen was 3.12 for the men and 4.95 for the women. First year students usually make more visits per capita than members of the other classes.

Visits to the Health Service must necessarily increase with each additional student registered, each new employee put to work, and with the extension of University activities into fields requiring medical supervision.



TOTAL YEARLY VISITS TO THE HEALTH  
SERVICE IN THOUSANDS



\* Smallpox epidemics

# Depression year - decreased enrollment

Chart No. 1



## MEDICAL EXAMINATIONS

Students: Complete physical examinations were given to 5,108 students during the academic year of 1938-39. Of this total, 3,590 were men and 1,518 were women. Examinations were given to 480 prospective students who did not matriculate. There seems to be no way to avoid these needless examinations, since a student may present himself for examination at any time after graduation from high school and opening of the University. This number tends to fluctuate yearly but remains between 6 and 10 per cent of the total number taking physical examinations.

High School Pupils: There were 103 physical examinations given to high school students. Of these, 53 were boys and 50 were girls. A growing consciousness and knowledge of the benefits to be derived from immunization against smallpox has left only 11% of those examined unvaccinated. None of these pupils had serious abnormalities.

Civil Service Employees: Employees of the University made 1,797 calls to the Health Service Station, of which 225 were for physical examinations. Of the total examined, 218 were men and 7 were women. Two hundred five were graded as good, and 20 as fair.





# NUMBER OF STUDENTS PER 1000 EXAMINED

## WHO FAILED TO REGISTER

	Number Taking Physical Exams	Number Not Registering
1928-29	4457	273
1929-30	4696	323
1930-31	4772	333
1931-32	3936	296
1932-33	3131	260
1933-34	3728	361
1934-35	4321	241
1935-36	4662	474
1936-37	5346	478
1937-38	5456	553
1938-39	5108	480

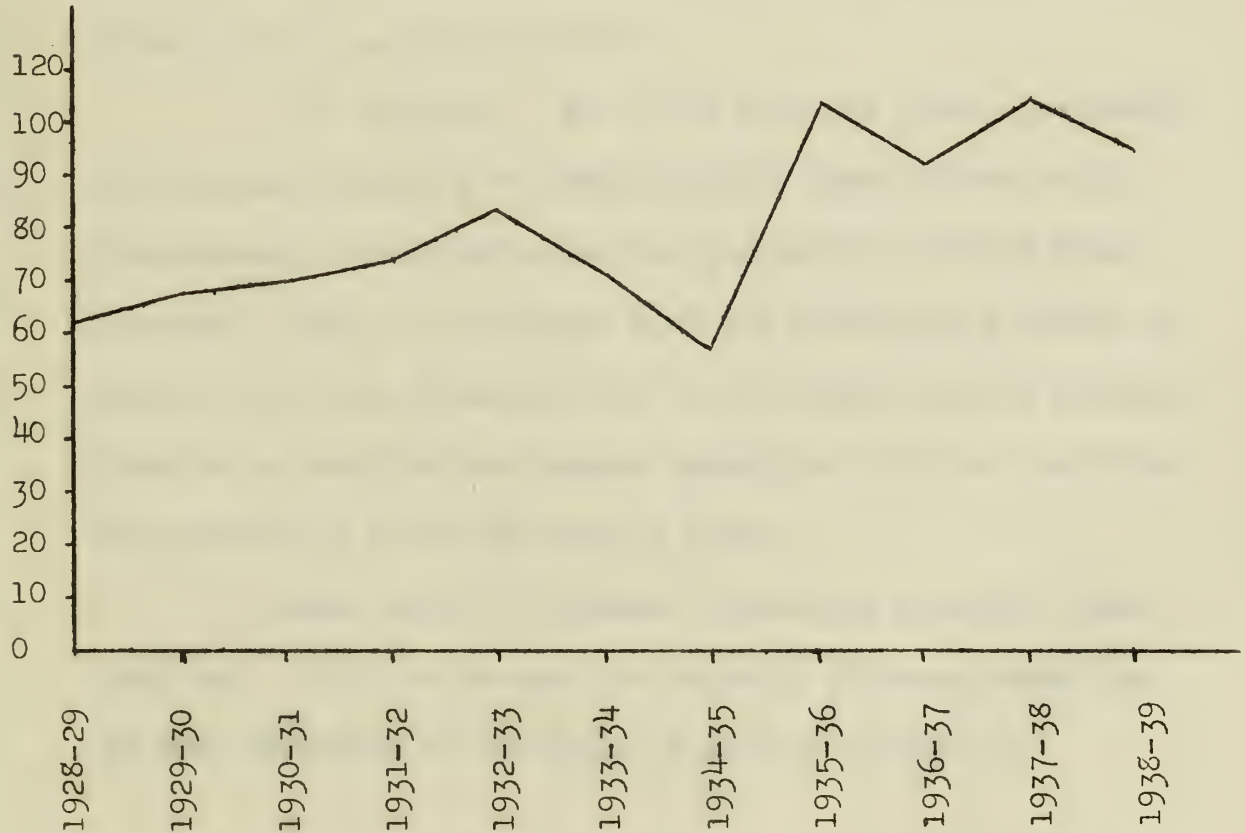


Chart No. 2





Chauffeur Examinations: (a) Faculty members and employees who were to drive University automobiles were required to take an examination to determine their acuity of vision, color vision, hearing, reflex action, glare recovery, coordination, depth perception, reaction time, field of vision, and general health. The construction of the "Reactichron" by Dr. M. Paul Mains of the staff has made possible a most up-to-date method for the testing of prospective drivers.

A total of 351 persons took the examination, of which 339 were men and 12 were women. Of these, 276 were considered to be normal and recommendations concerning the other 75 were as shown in Table 1.

(b) Students. As in the past two years, the Health Service has continued to give chauffeur examinations to all undergraduate students requesting permission to drive motor vehicles. This is in keeping with the University's policy to restrict the use of automobiles on the campus, and to minimize insofar as possible the hazards associated with the operation of automobiles by the physically unfit.

There were 370 students requesting chauffeur examinations. Of these prospective drivers, 305 were normal and 65 were defective to the degree indicated in Table 1.



Table 1

## Chauffeur Examinations

<u>Recommendations</u>	<u>(a) Faculty and Employees</u>	<u>(b) Students</u>
Should not drive without glasses (vision without glasses far below normal).....	53 .....	39
Should have eyes examined and obtain glasses (poor vision without glasses) .....	9 .....	11
Should have eyes re-examined and not drive without glasses (present glasses give insufficient correction) .....	6 .....	6
Restricted, reasons noted		
Colorblind .....	2 .....	1
Loss of vision in one eye .....	4 .....	4
Locomotor ataxia (rejected) .....	1 .....	-
Defective lower extremities .....	- .....	3

Athletic Examinations: Students who wish to participate in athletics, both intercollegiate and intramural, are required to take an examination to be sure they are physically qualified. Since intramural sports offer mild as well as semi-strenuous games, greater participation in this branch of athletics is possible. Only 3 students were prevented from taking part in the strenuous type but were allowed to participate in "mild sports." It was necessary to reject 16 students who desired to participate in major athletics



because their physical condition was such as to make it quite dangerous to do so. Table 2, below, gives the causes for which rejections were made.

Table 2

## Men Rejected for Varsity Athletics

<u>Reason</u>	<u>Rejected for</u>	<u>Total</u>
Atrophy of leg .....	Gymnastics - 1 .....	1
Sacro-iliac sprain .....	Fencing ---- 1 .....	1
Head injury .....	Football --- 1 .....	1
Deformity of left arm (limited extension) .....	Hockey ----- 1 .....	1
Knee injury .....	Basketball - 1 Football --- 2 .....	3
Osteomyelitis of jaw .....	Football --- 1 .....	1
Ankle injury .....	Football --- 1 .....	1
Hernia .....	Football --- 1 .....	1
Persistent albuminuria .....	Baseball --- 1 .....	1
Injured shoulder .....	Track ----- 1 .....	1
Biceps injury .....	Wrestling -- 1 .....	1
Defective vision one eye ....	Basketball - 1 Football --- 1 .....	2
Heart lesion (mitral in- sufficiency) .....	Football --- 1 .....	1
Total .....		16

A total of 8 men were rejected for varsity football, and 1 each for baseball, basketball, fencing, gymnastics, hockey, track, and wrestling.





Sustained effort is made not only to give these examinations as quickly and with as little inconvenience as possible to the student, but also to demonstrate to him and to his coach the paramount importance of such physical inventories before engaging in strenuous physical activity. Physical examinations make it possible to put major emphasis on the far-sighted view of sports as the builder of effective citizens, rather than on the short-sighted attitude of winning, regardless of its cost. Our coaches are most cooperative and helpful in making this constructive conception of sports effective.

Foodhandlers: As a safeguard against possible disease carriers becoming sources of epidemics, all employees who were to handle food products, and students employed as foodhandlers by the University or enrolled in courses in lunch room management, dairy manufacturing, or meat, were examined and vaccinated against smallpox and immunized against typhoid fever in accordance with University regulations. Upon request, the same service has been made available to those handling food products catering to student patronage.

Groups serving lunches on the campus to University guests have been urged to comply with the same foodhandler





requirements in order to give visitors eating on the campus the benefits of the same safeguards as the patrons of the University food distributing agencies. A total of 30 students registering with the Employment Bureau for foodhandling jobs have been examined and certified as foodhandlers during the year. The number and distribution of foodhandlers examined who were in the employ of and taking courses in the University are shown in Table 3.

Table 3

## Foodhandlers

Dairy Department .....	172
Cafeteria, Woman's Building .....	70
Mary E. Busey Hall .....	59
Davenport House .....	9
Agricultural Salesroom .....	3
Agricultural Engineering (Farm & Home Week) .....	<u>20</u>
Total.....	333

## "FOLLOW-UP"

New Students: At the time that new students take their physical examination a brief summary of the findings is made on the card of each student. The student is recalled later for conference concerning the abnormalities noted, and is given advice regarding their correction if such is possible. There were 1785 men and 843 women seen for this purpose.

The way for many conferences with students is paved



by the use of a questionnaire dealing with their health habits and inclinations. It offers an opportunity for evaluation of the student's emotional development, his attitude, and his adjustment to college life. His questionnaire and medical record are a rather complete inventory of physical condition and mental health.

Tuberculosis: Seventy-one students who have had intimate contact with open cases of pulmonary tuberculosis were re-examined. There were 35 students with one or more symptoms such as persistent coughs, prolonged "colds", undue fatigue, and unexplainable loss of weight. These are being rechecked repeatedly for evidences of tuberculosis and a number of them have been referred to clinics for thorough study. Fourteen arrested cases of pulmonary tuberculosis reported for examination, four others with inactive tuberculosis of the joint or bone, one with adenopathy, and one with a previous tuberculosis peritonitis.

An open case of pulmonary tuberculosis was called to our attention. The diagnosis of this case was impossible from the physical examination, but was readily diagnosed by x-ray and other laboratory tests by one of the physicians of the community.





This case once again emphasizes the importance of early diagnosis of tuberculosis. A detailed history, thorough chest examination and follow-up of suspicious cases, are not enough to prevent cases of active tuberculosis going undetected. There are such cases among students. The longer they go undiagnosed, the less chance they have of recovery and unfortunately the more persons they expose. Only by the tuberculin test and x-ray of positive reactors can those with active tuberculosis be screened out of the student body, the greatest protection provided for the University population, and they be given a maximum chance for restoration to health.

Heart Disease: Cardiac abnormalities were found in 56 students. They have been kept under observation, have been repeatedly examined, and a program outlined to protect their hearts from undue strain. Forty of these were excused from military and assigned to adapted exercise. Two students had suffered so much cardiac damage that they were permanently excused from all physical education.

Albuminuria: On the first test, 234 new students examined in 1938-39 were found to have albuminuria. Repeated





10.,

examinations showed it to be persistent in only 7. These were referred to their family physicians or to urologists for further study and treatment. Three Civil Service employees had transient albuminuria, and of 103 University High School students examined, 3 showed the same condition.

Glycosuria: Alimentary glycosuria was discovered in 81 of the 5,108 students given a urinalysis. Two were found to be diabetic and were urged to see their family physicians for treatment.

Maladjustments: Students who have had difficulty in adjusting themselves to the demands of a highly complex society have been seen one or more times. The medical records, supplemented by personal questionnaires, have been the starting point for conferences with students as to their physical and mental health, environment, and adaptation to it.

In cooperation with the Personnel Bureau, the services of a mental hygienist were made available to students during the second semester of the academic year for a day and a half every two weeks. All of those who sought his advice and help did so voluntarily on learning from the Personnel Bureau or Health Service that his services were available. The need for a well trained mental hygienist was clearly



demonstrated by the number that requested interviews. All desiring to confer with him could not be accommodated because of the limitation of time. A total of 37 patients was seen by him.

#### COMMUNICABLE DISEASE

Prevalence: With the exception of la grippe, communicable disease was of low incidence in the student body. An outbreak of mild influenza in February and March caused the hospitalization of 829 students. Fortunately, few grave sequelae and no deaths resulted. Thirteen cases of scarlet fever appeared in the student body. Measles and chickenpox showed a decrease from last year. The cases of communicable disease reported in the student body during last year and that preceding are as given below.

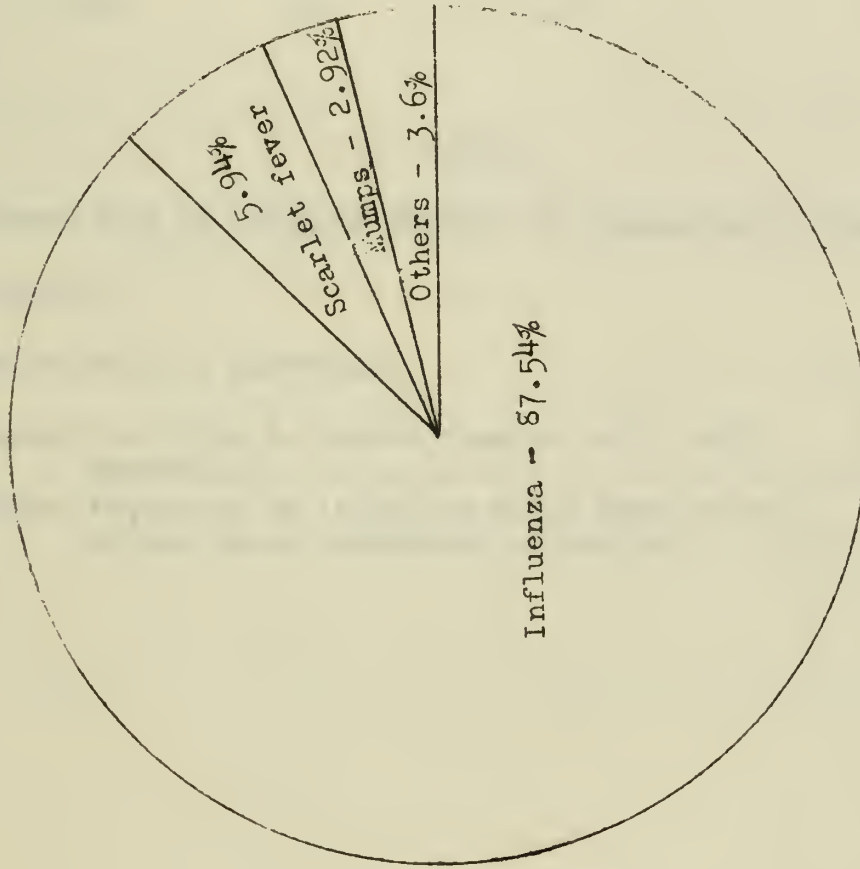
Table 4

Incidence of Communicable Disease for the Biennium 1937-39		
	<u>1938-39</u>	<u>1937-38</u>
Coryza .....	1000	820
Coryza (hospitalized) .....	616	680
Vincent's angina .....	91	40
Chickenpox .....	4	16
Measles .....	1	11
Mumps .....	7	4
Scarlet fever .....	13	2
Diphtheria .....	<u>2</u>	<u>0</u>
Total.....	1734	1573



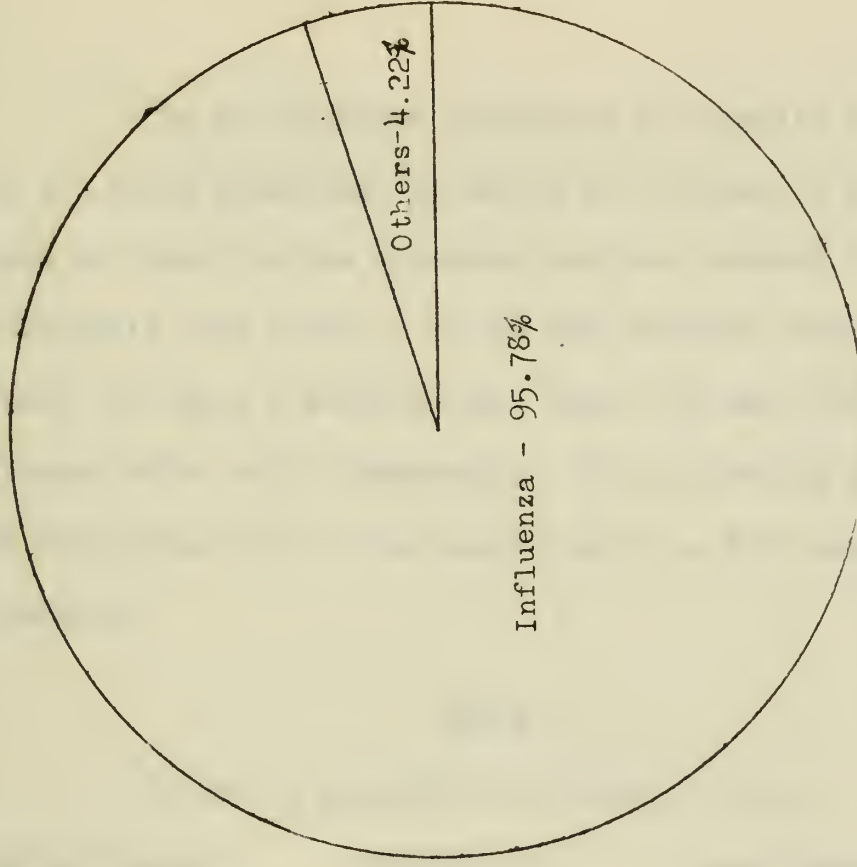
THE DISTRIBUTION OF HOSPITAL CASES AND DAYS  
FOR COMMUNICABLE DISEASES  
CARED FOR AT MCKINLEY HOSPITAL

DIVISION OF HOSPITAL DAYS



Pneumonia.....	2.25%
Chickempox .....	.71
Measles.....	.39
Vincent's angina ..	.25
Others .....	3.60%

DIVISION OF HOSPITAL CASES



Mumps .....	1.37%
Pneumonia .....	1.05
Scarlet fever .....	.84
Measles .....	.32
Chickenpox .....	.32
Vincent's angina .....	.32
Others .....	4.22%





By the modified quarantine for scarlet fever permitted by the State Department of Health for the past 3 years, the loss of time from the classroom has been reduced to the minimum compatible with safety. Of the 246 students exposed to scarlet fever, 112 gave a positive Dick test, but were allowed to attend classes after daily observation. This procedure saved a total of 672 school days or the equivalent of a full semester for 6 students.

Table 5

## Modified Quarantine for Scarlet Fever

Number Exposed	Dick Tests		Certificates of Having Had The Disease
	Positive	Negative	
246	112	111	23

Table 6

## Disposition of Students Exposed to Communicable Disease .

Contacts.....	2070
Number held in quarantine.....	26 .
Number permitted to attend classes under daily observation.....	173
Number requiring no isolation under Regulations of the State Department of Health.....	1866





Hospitalization: As will be seen from the following table, a total of 949 students with communicable disease was admitted to the McKinley Hospital for a stay of 3,549 days, or an average of 3.74 days per patient. Influenza was responsible for 829 or 87% of the cases, and 2,787 or 78% of the hospital days.

Table 7

Communicable Disease Cases Cared for  
at McKinley Hospital

<u>Disease</u>	<u>Cases</u>	<u>Days</u>
Influenza .....	829 .....	2787
La grippe .....	80 .....	319
Mumps .....	13 .....	104
Measles.....	3 .....	14
Scarlet fever .....	8 .....	211
Pneumonia .....	10 .....	80
Chickenpox .....	3 .....	25
Vincent's angina .....	<u>3</u> .....	<u>9</u>
Total .....	949 .....	3549

Venereal Disease: The incidence of venereal disease among students has remained low. Six students were found to have gonorrhea, and 3 syphilis as a result of voluntarily calling for a conference or through a "follow-up" on the basis of reports. Many students have requested and received Kahn tests.



Certain organized groups have made Kahn tests a prerequisite to membership. There were 535 tests given to students; of these only 3 had positive reactions.

A Kahn test is a part of the routine physical examination of Civil Service employees. Thirteen or 5.8% were found to have either late or latent syphilis. The incidence of venereal disease is higher in laborers than in students because of age and longer period for exposure. One employee who has been in the service of the University for over 20 years was discovered to be suffering from locomotor-ataxia. His Kahn test was positive. To protect the best interests of the University and the public, he was not permitted to operate its cars.

Faculty and Civil Service Employees: Communicable diseases in the families of faculty members and Civil Service employees were less during last year than in previous years. Only 16 cases were reported, of which 3 were chickenpox, 8 scarlet fever, 1 Vincent's angina, and 4 influenza.

Vaccination for Spotted Fever: This year, as last, students and faculty members who expected to study and to do research in the Rocky Mountain region during their vacation, were inoculated against spotted fever. A total of 12 men was immunized. The vaccine was furnished without cost





by the special laboratory of the U. S. Public Health Service at Hamilton, Montana. Spotted fever, however, is no longer confined to the Rocky Mountains but occurs in Illinois. Last year 21 cases and 4 deaths were reported in this State.

#### COOPERATION WITH THE DEPARTMENTS OF MILITARY SCIENCE AND PHYSICAL EDUCATION

Permanent Classification: During the year it was necessary to assign 435 men and 175 women to individual gymnastics for special training. Because of marked physical abnormalities or organic disease 10 students were classified as unable to take either physical education or military. Of these, 3 had osteomyelitis, 2 diabetes, 1 mitral insufficiency, 1 tuberculosis of the bone, 2 unusual physical deformities, and 1 was excused on the urgent request of his family physician because of rheumatic fever and hypertension.

There were 241 students permanently excused from military because of failure to meet the minimum requirements of the Medical Department of the Army. Four students who were below the minimum standards for commission but who desired to take military and were physically able to drill without unusual risk were assigned to it.

Temporary Excuses: During the year 483 men students were given temporary excuses from military, physical education,





or both; 213 from military only, and 270 from physical education only. They had undergone recent operations, or had lost so much time on account of illness that they could not complete satisfactorily the work for the semester.

Students suffering from sinusitis, infection of the middle ear, or perforation of the ear drum were transferred from swimming to a form of exercise less likely to cause them trouble. There was a total of 71 recommendations issued to students for changes from one type of physical education to another or for modifications of their required exercise.

Advanced Corps Students: The Health Service administered 219 doses of typhoid vaccine and vaccinated against smallpox those who were planning to attend the Reserve Officers Training Camps. In cooperating with the Army Medical Corps 334 urinalyses were made upon students who were being given special examinations for advanced military.

#### HOSPITALIZATION

The Student Body: The facilities of the McKinley Hospital are a great insurance for the student body. A total of 3,014 students was admitted to the Hospital for 9,745 days, an average of 3.23 days per patient.

The following report was made by the committee on the subject of the proposed amendment to the constitution of the State, and is submitted to the Legislature for their consideration.

The committee have the honor to acknowledge the receipt of the report of the committee on the subject of the proposed amendment to the constitution of the State, and to state that they have carefully considered the same, and are of the opinion that the proposed amendment is not necessary, and should not be adopted.

The committee further state that they have also considered the report of the committee on the subject of the proposed amendment to the constitution of the State, and are of the opinion that the proposed amendment is not necessary, and should not be adopted.

The committee further state that they have also considered the report of the committee on the subject of the proposed amendment to the constitution of the State, and are of the opinion that the proposed amendment is not necessary, and should not be adopted.

This length of hospitalization is much less than the average stay of 12.5 days per patient for the general hospitals of the country. The difference is largely due to the delay in admission, the serious nature of the injuries and illnesses, and the ages of those being cared for in general hospitals. However, the average stay of students is very materially increased by the fact that they are compelled to remain in the hospital in the case of quarantinable disease for the period specified by the State Department of Health. For example, in the instance of scarlet fever, the patient must remain in the hospital for a period of 4 weeks. Their average stay of 3.23 days, notwithstanding this requirement, is explained by their early admission, prompt treatment, and quick recovery.

Of all the students hospitalized, 89% were admitted to McKinley Hospital and only 11% to other hospitals. The local hospitals, however, had 16% of the student patronage in hospital days; the McKinley 84%. This difference between percentage of cases and hospital days is due to the low average stay (3.23 days) of students in the McKinley Hospital for medical cases and the longer hospitalization in local institutions for surgical treatment.

Local Hospitals: The Mercy and Burnham Hospitals admitted 373 students for a total of 1,950 days, an average





of 5.23 days per patient. The average length of stays in these hospitals were 6.12 and 5.01 respectively, which are longer than those of the McKinley Hospital by 62%. They admit students requiring surgery; hence, the prolonged period of hospitalization.

Influenza Epidemic: The influenza epidemic which struck the campus in February put 851 students in the McKinley Hospital for a total of 2677 days. It was necessary to provide hospital annexes by renting nearby vacant homes and using them as temporary wards and private rooms. By the use of residences at 1002 S. Lincoln Avenue, 609 Indiana Avenue, and the Nurses' Home at 1009 West Nevada Street, 108 beds were made available to meet the emergency. Happily, few serious complications of influenza developed, and no students lost their lives. Seven students had pneumonia, but all recovered.

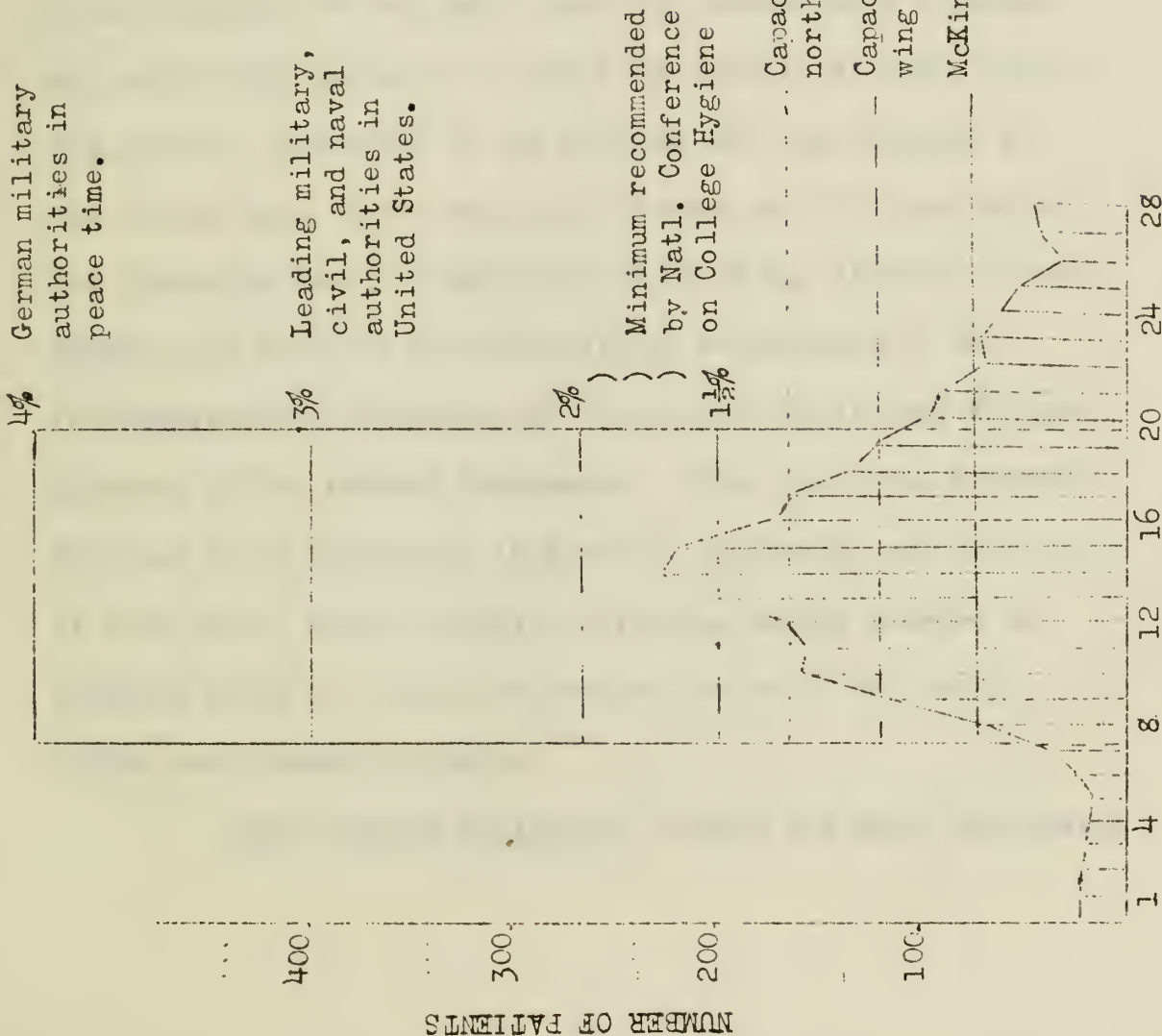
Hospital Inadequacy: In the population of the country as a whole, 1 person in every 14 is admitted to a registered hospital during the year; in the student body, 1 in 3.9 in 8 months. The graph on page 18a shows clearly the inadequacy of the present hospital facilities to meet the first shock of an epidemic. The ratio of hospital beds to population recommended by leading civic hospital administrators and naval and military authorities ranges from 15 to 40 beds per thousand population. With the completion of the south





# A GRAPH SHOWING:

1. The daily need for hospital beds during the influenza epidemic among students in February 1939.
2. The bed capacity of the McKinley Hospital.
3. Recommendations of civil, naval, and military authorities as to the per cent of the group for which beds should be available to meet the first shock of an epidemic.



DAYS OF THE MONTH



wing of the McKinley Hospital, 44 beds will be added to its present capacity, but even then, based on minimum recommendations, or those made by the National Conference on College Hygiene of 12 to 20 beds per 1000, there will still be an inadequacy of 80 beds. It is difficult to set an exact ratio of beds to population because hospital care is not solely a matter of population and morbidity, but is complicated by social, economic, and occupational factors.

The need for the University having facilities for hospitalization is markedly increased by the fact that the local hospitals do not admit cases of communicable disease, and sick students cannot be cared for readily at their lodging houses. Exclusive of the hospital for the indigent at the County Farm, there are only 3.6 beds per 1000 population for Champaign County, which is 0.9% below the standard of adequacy (4.5 beds per 1000 population) recommended by the Interdepartmental Committee to Co-ordinate Health and Welfare Agencies of the Federal Government. Thus, the local hospitals will not be of assistance in cases of epidemics, and could not if they would, since contagion affecting larger numbers of students would be certain to involve people of the Twin Cities and Champaign County.

Civil Service Employees: During the year, University





employees suffered 136 accidents in the line of duty. Of these, 90 required minor surgical attention and 46 were injured so severely that they were referred to outside surgeons, specialists, or radiologists for prolonged treatment. Seven employees were hospitalized for a total of 154 days, or an average of 22 days per patient.

Table 8

## Hospitalization of Civil Service Employees

<u>Injury</u>	<u>Number</u>	<u>Days Hospitalized</u>
Hernia.....	4 .....	56
Torn ligaments .....	1 .....	3
Fractured collar bone .....	1 .....	5
Fractured vertebrae .....	<u>1</u> .....	<u>90</u>
Total .....	7 .....	154

Hospital Association: Membership in the student Mutual Benefit Association has been ably promoted by the office of the Dean of Men. Its energetic campaign induced 6,461 students, faculty members, and employees to join during the first semester, and 5,088 the second, which were respectively 51.15% and 42.90% of the student enrollment for the first and second semesters of 1938-39. The total number of students having sickness insurance was increased somewhat by those patronizing companies now providing such





service. It is, nevertheless, regrettable that more students do not join the Association, or otherwise provide protection for themselves, particularly during the second semester when sick rates are higher and hospitalization is often badly needed by those who can ill afford its expense.

A number of insurance companies of varying degrees of merit and service are promoting such insurance among students. The extent of the service they offer is rarely yet the equal of that of the Student Mutual Benefit Hospital Association. However, the publicity associated with their bids for business causes some students to make provision for illness who otherwise would not do so.

#### STUDENT DEATHS

It is with deep regret that I report the death of 15 students during the year. Of these deaths, 4 were caused by automobile accidents, 2 by drowning, 2 in playing touch football, 2 suicide, 1 student was hit by a train, 1 was accidentally shot, 1 died of malignant malaria, 1 of coronary occlusion, and 1 as the result of a renal infection. Only 7 died in Champaign-Urbana. This is a death rate of 0.52 for students dying in Champaign-Urbana and 1.12 per 1000 for those dying during the school year. These



rates as shown in Table 9 are considerably lower than those of the registration area of the U. S. and of Illinois, based upon the last statistics available, namely, those for 1936 and 1937.

Although it is well recognized in dealing with statistical data that where the numbers are small, results may show so much variation as to be of doubtful value, it is nevertheless interesting to note that the mortality rates of students due to suicide and automobile accidents are higher than those for the same causes and ages in either the country as a whole or the State of Illinois. Suicide is a finding which should cause no surprise in a period characterized by extraordinary chaos, turmoil, brutality, and uncertainty.

Table 9

## Comparative Rates as Per Cause of Death

	United States <u>1936</u>	State of Illinois <u>1937</u>	U. of I. Students <u>1938-39</u>
Deaths 15-24 yrs. (all causes)	65,470	2,980	15
Rate per 1000	2.758	2.131	1.121
Deaths 15-24 yrs. (suicides)	1,591	58	2
Rate per 1000	.0670	.0414	.149
Deaths 15-24 yrs. (auto accidents)	6,577	292	4
Rate per 1000	.277	.208	.298





## INSTRUCTION IN HYGIENE

The results of a questionnaire filled out by freshmen registered in Hygiene 2 and 5 revealed that only 58 teachers of hygiene in the high schools attended by these students gave full time instruction in health education. The greater percentage taught the subject as a side line. This indicates that the State of Illinois is still far behind in having its teaching of hygiene and sanitation of a quality comparable to their importance to the individual and to his community.

The survey (see Appendix F) reveals furthermore that students who do not attend college do not receive sufficient training in high schools in regard to personal health, sanitation, the control of communicable disease, and healthful living to function at their best in our highly complex society of today. Such a situation is to be deplored since only 10% of those graduating from high school attend institutions of higher learning.

Proficiency Examination: A total of 183 students passed the proficiency test in hygiene and received credit in it. Of these, 16 were students from outside this State, and 29 were from Champaign County. The distribution by colleges of those who passed the proficiency test during the





past year is given in Table 10.

Table 10

Classification of Those Who Passed  
Hygiene 2 and 5 Proficiency Examinations

<u>By Colloge</u>		<u>By Location</u>	
Liberal Arts and Sciences	107	In State	..... 138
Engineering .....	26	Out of State	<u>16</u>
Agriculture .....	27		
Commerce.....	14	Total ...	183
Fine and Applied Arts	<u>9</u>		
Total.....	183		

Elementary Hygiene: For the first semester, elementary hygiene and sanitation was taught to 1774 students, of which 1325 were men and 449 were women. The total registration for both semesters in elementary hygiene was 3211. There were 28 sections for the men and 10 for the women each semester.

Advanced Hygiene: The advanced course in hygiene for coaches, physical education majors, and teachers had a total registration for the year of 189 students. During the first semester the enrollment was 36 students; in the second, 153.

Hygiene X3: In cooperation with the Director of the University Extension Service, a correspondence course in hygiene has been offered, which has had a registration of 27 students.



The quality of the work presented by those taking it was most satisfactory. This training should better prepare them to protect themselves and their families and to function more intelligently as citizens interested in improving living conditions in their community.

### SANITATION

The Health Service has continued its study of the conditions under which students live by a systematic inspection of lodging houses. Unsatisfactory findings have been called to the attention of landladies and proprietors and, where necessary, reports to proper local authorities have been made in order to give students as safe and sanitary living conditions as possible.

A total of 350 houses inspected during the past year lodged 5863 students, 3968 of whom lived in organized houses where, generally speaking, better conditions prevail. There was an average of 16.7 students in each house and an average of 2.03 students in each room inspected.

It should be recognized that only about one-half the student population is included in this inspection. Over 1500 students are from Champaign County and many others live at home in neighboring counties.





Lodging House Inspection: In making inspections of lodging houses, special attention was given to:

- |                 |                  |
|-----------------|------------------|
| 1. Study rooms  | 7. Heating       |
| 2. Bed clothing | 8. Humidity      |
| 3. Furniture    | 9. Lighting      |
| 4. Bathrooms    | 10. Basements    |
| 5. Dormitories  | 11. Cleanliness  |
| 6. Ventilation  | 12. Fire Hazards |

Table 11

## Lodging Houses Inspected During 1938-39

	Men		Women	
	Organized	Unorganized	Organized	Unorganized
Total houses	75	135	86	54
Dormitories	72	62	59	15
Rooms	1113	612	852	277

In a student population of 13,380 a wide variation in living conditions is not surprising. Table 12 shows that a greater part of the students live under favorable conditions and only a very small percentage are in rooms classed by student inspectors as poor.

A slow but continual betterment of general living conditions and facilities in lodging houses inspected has been noted, over a period of four years. It must be recognized, however, that in the absence of definite criteria for the measurement of what constitutes adequate ventilation, or humidity, and what is an untidy basement, hallway, or





dormitory the answer is largely one of judgment on the part of the student inspector.

Table 12

## Trend in Housing Conditions

<u>Condition</u>	<u>1935-36</u>	<u>1936-37</u>	<u>1937-38</u>	<u>1938-39</u>
% Untidy halls and stairs .....	15.1	12.2	6.4	8.0
% Untidy dormitories .....	9.1	12.6	5.7	8.5
% Untidy study rooms .....	15.1	14.2	7.0	8.8
% Combustible material present .....	19.1	9.8	11.7	15.1
% Wooden ash containers .....	27.6	26.9	11.3	8.8
% Dangerous fire escapes .....	1.8	0.9	0.8	1.7
% Faulty electric wiring .....	3.9	2.7	4.1	1.2
% Poor ventilation.....	4.7	2.9	2.3	0.28
% Inadequate lighting .....	30.2	11.0	0.8	8.0
% Double beds with 2 persons .....	21.6	24.3	33.6	24.5
% Inadequate bathroom facilities ...	23.9	15.4	15.9	9.4
% Inadequate humidity .....	37.0	24.9	33.0	52.0
% Animals .....	7.3	5.9	14.3	25.7
% Poor basements .....	8.6	11.7	3.8	4.8
No. of I.E.S. lamps .....	-	141	1472	2181
No. of students in inspected houses .	-	6767	6819	5863
% of students with I.E.S. lamps in houses inspected .....	-	2.7	21.5	36.1
Total houses inspected .....	384	827	487	350

The most common danger found in student lodging houses is the putting of waste paper and other inflammable materials near furnaces where a single spark could start a fire; the careless disposal of cigarette stumps is a close second. Electric wires are frequently run under rugs or hung over nails and are potential sources of fires and risks to life. Table 13 shows other fire hazards.



Table 13

## Fire Hazards

Ashes stored in:	
Metal containers .....	276
Wooden containers .....	31
Both .....	5
On the floor .....	5
No provision .....	33
Houses without fire extinguishers .....	226

Table 14 shows the percentage of organized and unorganized houses without fire escapes.

Table 14

## Fire Escapes

	<u>Unorganized</u> % of 3 story houses without escapes	<u>Organized</u> % of 3 story houses without escapes
1935-36	62.0	9.8
1936-37	18.2	9.2
1937-38	14.5	5.7
1938-39	2.5	4.3

In unorganized houses the conditions of the basements and bathroom facilities were not as good as in the organized houses. Out of 264 organized and unorganized independent houses, 27 had inadequate bathroom equipment; only 6 of the 80 fraternity and sorority organized houses inspected were defective in this respect. A number of the unorganized





houses are old buildings in which the plumbing fixtures have not been altered since their construction. Table 15 shows the sanitary conditions of the lodging houses inspected in 1938-39.

Table 15

## Sanitary Conditions of Lodging Houses

	<u>Organized Houses</u>				<u>Unorganized Houses</u>			
	<u>Exc.</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Exc.</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
<u>Study rooms</u>								
Cleanliness and tidiness .....	33	112	16	-	16	158	14	1
Ventilation ...	-	140	20	1	-	177	12	-
<u>Bathrooms</u>								
Cleanliness ...	13	144	4	-	1	179	6	3
<u>Dormitories</u>								
Cleanliness ...	22	91	17	1	4	61	11	1
<u>Basements</u>								
Cleanliness and tidiness .....	12	100	40	12	9	107	64	5
<u>Yards</u>								
Cleanliness and tidiness .....	32	123	6	-	7	170	11	-

Drinking Fountains: To determine the prevalence of unsanitary drinking fountains in the student quarters on the campus, the student inspectors on the NYA house inspection project paid particular attention to the type of fountain being used. Drinking fountains are considered sanitary if





they possess the following features:

1. The projector is at an angle of not less than  $15^{\circ}$  nor more than  $30^{\circ}$  from the vertical. It does not squirt.
2. The opening of the jet is protected by a guard to keep the mouth and nose from coming in contact with it. The guard is not touched by water issuing from the projector. To prevent its being flooded, the opening of the jet is at least an eighth of an inch above the rim of the bowl. Water from the mouth of the drinker cannot fall back into the orifice of the projector to contaminate the water for the next person using the fountain.
3. The bowl is free from corners which collect dirt or are hard to keep clean. It is properly proportioned to prevent unnecessary splashing.
4. An automatic pressure control provides a drinkable stream at all times.
5. The drain pipe is properly trapped, of sufficient size to carry water off promptly, and its opening is provided with a strainer.

One hundred twelve drinking fountains were found in 60 residences. Fraternities and sororities are the principal users of this method of readily supplying drinking water. Of this number, 27 or 24.1% were sanitary and 85 or 75.9% were of the dirt collecting, disease carrying type.

Swimming Pools: Immediate attention has been given to reports which have been received concerning the conditions of the swimming pools and water supply. The pools and water supply of the University have been supervised by an able and



conscientious Sanitary Engineer.

#### FIRST AID

A total of 119 first aid cabinets is being maintained in the various buildings on the campus. They are much used and are visited weekly or twice weekly, depending upon their location, to replace supplies as needed.

It has been customary for a number of years for members of the Health Service staff upon request to attend certain University functions in order to render first aid if necessary. This service was given at the Electrical Engineering Show, the Physical Education Tournaments, Farm and Home Week Programs, and the Commencement Exercises.

In cooperation with other departments, the offices of the Health Service were also made available in emergencies to guests of the University. Its facilities were offered to those attending Farm and Home Week, 4-H Club Conventions, and short courses given by the University.

#### LABORATORY SERVICE

As a part of the routine work of the Health Service, various laboratory services were given the students and Civil Service employees. In many instances these tests





were essential either in making effective the regulations of the University concerning foodhandlers or in diagnosing and controlling communicable disease. The bacteriological tests recorded herewith were largely made by the branch laboratory of the State Department of Health on specimens submitted by members of the medical staff of the Health Service. It is a pleasure to acknowledge our great indebtedness to it.

Table 16

## Laboratory Tests

Urinalyses .....	11,115
Kahn tests .....	791
Bacteriological examinations of excreta .....	1,010
Diphtheria cultures .....	131
Smears for Vincent's angina .....	295
Smears from the urethra .....	94
Blood examinations (white cells) .....	26
Basal metabolism tests .....	54
Wassermann tests .....	30
Sputum examinations .....	13
X-ray examinations .....	30
Agglutination tests for undulant fever .....	4
Cultures from secretions of the eye .....	12
Malarial blood smear .....	1
Total .....	13,606

Table 17

## Positive Laboratory Tests

Smears for Vincent's angina .....	118
Kahn tests for syphilis .....	28
Bacteriological examinations of excreta .....	4
Cultures from excretions of the eye .....	6
Smears from the urethra for gonorrhea .....	7
Throat swabs for diphtheria .....	8
Total .....	171



#### NURSERY SCHOOL

The psychology department conducted a nursery school for observation and experimentation during the summer term. Drs. Maude L. Etheredge, L. D. Lewis, E. A. Thacker, and Marjorie M. Smarzo, of the Health Service staff, cooperated with the psychologists by giving the children daily medical supervision. The morning group had an enrollment of 25 children and the afternoon group had 18.

#### REQUESTS FOR INFORMATION

Ninety-five citizens of the State have requested information on various aspects of public health, and approximately 200 bulletins and pamphlets have been sent to them. Twenty or more requests were received for reprints of articles by members of the department and for copies of forms used by the Health Service. Requests have been received from Trenton, New Jersey, Clayton, Missouri, and Buffalo, New York, for permission to reprint and distribute within those municipalities a card, "Hints for Foodhandlers", which was originally prepared and distributed by the Health Service.



## THE GENERAL PRACTITIONER AND THE HEALTH SERVICE

The medical staff of the Health Service has had the most helpful cooperation of local and family physicians in caring for students. A total of 284 letters has been received concerning the physical conditions of students who are or have been patients of these doctors. From Table 18 it is seen they have made 807 certifications relative to communicable disease.

Table 18  
Certificates of Immunity

Smallpox	
By disease.....	12
By vaccination .....	165
Typhoid fever	
By disease .....	12
By inoculation .....	82
Diphtheria	
By immunization .....	11
Scarlet fever	
By disease .....	254
By immunization .....	3
Dick tests given .....	<u>268</u>
Total .....	807

The number of students admitted to local hospitals during the academic year was 3387. Of this number, 2947 were sent to the hospitals by local doctors, and 440 went there directly from the Health Service Station. The 440 who went to the hospitals from the Health Service Station chose 53 different doctors to attend them while ill.





TWENTY-THIRD ANNUAL REPORT

APPENDIX A



## APPENDIX A

Table I

## TYPES OF MEDICAL ATTENTION TO STUDENTS AND EMPLOYEES

	<u>1937-38</u>	<u>1938-39</u>
Advice in case of illness .....	2297	2614
First aid in injury and infection .....	3441	3295
Sent to hospital .....	340	649
Referred to specialist .....	1459	1073
Urinalyses .....	9796	11115
Complete physical examinations of students and employees .....	5751	5333

Table II

## MONTHLY DISTRIBUTION OF VISITS

	<u>Student</u>		<u>Civil Service</u>		<u>Total</u>
	<u>Men</u>	<u>Women</u>	<u>Men</u>	<u>Women</u>	
July .....	893	734	182	6	1815
August .....	2025	652	225	7	2909
September ...	8642	1963	207	11	10823
October .....	4418	1964	105	3	6490
November .....	3419	1779	83	3	5284
December .....	3215	1760	104	4	5083
January .....	3032	1386	104	3	4525
February .....	4082	2063	67	14	6226
March .....	3850	1884	135	22	5891
April .....	2861	1601	144	19	4625
May .....	3065	1632	158	5	4860
June .....	1137	822	181	5	2145
Totals ...	40639	18240	1695	102	60676

Table III

## CLASSIFICATION OF INJURIES TO CIVIL SERVICE EMPLOYEES FOR FIVE YEARS

	<u>1934-1935</u>	<u>1935-1936</u>	<u>1936-1937</u>	<u>1937-1938</u>	<u>1938-1939</u>
Abrasions .....	17	13	12	13	11
Amputations .....	..	..	..	..	..
Accident, automobile (death)	..	..	..	..	..
Avulsion .....	..	..	..	..	..
Bites .....	..	..	2	..	..
Blisters .....	..	..	1	..	..
Broken bones .....	3	2	..	..	..
Bruise .....	1	5	7	1	2





Table III (cont'd)

	<u>1934-1935</u>	<u>1935-1936</u>	<u>1936-1937</u>	<u>1937-1938</u>	<u>1938-1939</u>
Burns, acid .....	6	8	5	1	..
others .....	4	3	5	9	7
Contusions .....	7	39	21	13	12
Concussion .....	..	1	..	..	..
Dislocations .....	25	..	..	..	..
Excoriations .....	..	1	2	..	..
Finger nail torn loose	1	..	1	..	..
Flashed eye .....	..	1	..	..	..
Foreign body, eye ..	11	10	17	14	14
Fractures .....	5	..	7	3	1
Gas inhaled .....	1	..	2	..	..
Heat stroke .....	..	1	2	..	..
Hernia .....	2	6	3	..	..
Incisions .....	..	..	..	..	..
Infections .....	2	..	9	11	4
Inflammations .....	3	1	2	..	..
Injuries .....	8	4	..	7	2
Lacerations, incisions	33	27	32	22	..
abrasions, and punc-					
ture wounds .....	..	..	..	6	1
Muscle soreness ....	2	1	..	1	..
Pain .....	1	..	..	..	..
Phlebitis .....	..	..	..	..	..
Poisoning .....	..	..	..	..	..
Poison ivy .....	5	6	1	..	..
Puncture wound .....	1	..	9	4	5
Rabies virus on skin.	..	..	..	..	..
Rupture varicosity ..	..	..	..	..	..
Sliver and splinter .	4	5	5	4	5
Sprain and strain ..	14	21	11	7	17
Torn ligament .....	..	..	2	..	..

Table IV

## LABORATORY EXAMINATIONS

	<u>Positive</u>	<u>Negative</u>	<u>Total</u>
Bacteriological examinations of excreta...	4	1010	1014
Sputum for tuberculosis .....	..	13	13
Kahn test for syphilis .....	28	791	819
Wassermann tests .....	..	30	30
Throat cultures, diphtheria .....	8	131	139
Smear, Vincent's angina .....	118	295	413
Agglutination test for undulant fever ...	..	4	4
Urethral smears .....	7	94	101
Malaria blood smear .....	..	1	1
X-ray examinations .....	..	..	30
Blood examinations (white cells) .....	..	..	26
Basal metabolism test .....	..	..	54
Eye cultures .....	6	12	18



Table V

## CASES CARED FOR AT MCKINLEY HOSPITAL

	<u>Communicable</u>				<u>Non-Communicable</u>				<u>Total</u>		
	<u>Cases</u>		<u>Days</u>		<u>Cases</u>		<u>Days</u>		<u>Cases</u>		<u>Days</u>
July .....	0	...	0	.....	0	.....	0	.....	0	...	0
August .....	0	...	0	.....	0	.....	0	.....	0	...	0
September ....	3	...	12	.....	108	.....	213	.....	111	..	225
October .....	10	...	54	.....	261	.....	849	.....	271	..	903
November .....	16	...	133	.....	287	.....	849	.....	303	..	982
December .....	13	...	105	.....	311	.....	982	.....	324	..	1087
January .....	15	...	84	.....	231	.....	696	.....	246	..	780
February .....	819	...	2674	.....	140	.....	398	.....	959	..	3072
March .....	14	...	66	.....	296	.....	979	.....	310	..	1045
April .....	25	...	170	.....	249	.....	764	.....	274	..	934
May .....	11	...	108	.....	182	.....	531	.....	193	..	639
June .....	1	...	15	.....	22	.....	63	.....	23	..	78
Total .....	927	...	3421	.....	2087	.....	6324	.....	3014	..	9745

Table VI

AVERAGE HOSPITAL STAY  
Percentage of Students Using Hospitals

<u>Year</u>	<u>Average Hospital Stay</u>		<u>Percent of Students</u> <u>Using Hospitals</u>
1933-1934 .....	3.91	.....	15.3
1934-1935 .....	3.65	.....	24.6
1935-1936 .....	3.89	.....	24.3
1936-1937 .....	3.81	.....	24.8
1937-1938 .....	3.39	.....	21.43
1938-1939 .....	3.45	.....	25.31





Table VII

## CASES CARED FOR AT MCKINLEY HOSPITAL

Disease	1936-1937		1937-1938		1938-1939	
	Cases	Days	Cases	Days	Cases	Days
Angina.....	..	..	..	..	3	9
Chickenpox..	2	20	9	69	3	25
Diphtheria...	2	27	1	14	..	..
Influenza...	304	1217	4	11	889	3007
Malaria.....	..	..	2	7	..	..
Measles.....	3	6	12	88	3	14
Mumps.....	59	572	6	57	13	104
Pneumonia...	5	105	..	..	8	51
Scarlet fever.....	14	386	4	81	8	211
Total.....	389	2333	38	327	927	3421

Table VIII

## ELEMENTARY HYGIENE

	<u>Number of Students</u>	<u>Number of Sections</u>
Hygiene V		
Men, First Semester.....	1325	28
Men, Second Semester.....	1073	28
Hygiene II		
Women, First Semester.....	449	10
Women, Second Semester.....	406	10

## ADVANCED HYGIENE

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Hygiene X			
First Semester.....	25	12	37
Second Semester.....	90	24	114





Table IX

## FAMILY HISTORY OF INHERITABLE DISEASES

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Apoplexy . . .	.70	1.49	14	.39	29	1.92	43	.84
Cancer . . . .	8.93	13.99	522	15.	194	12.78	716	14.01
Gout . . . . .	3.94	8.81	117	3.25	112	7.38	229	4.48
Mental dis-								
turbances . .	.85	1.68	27	.75	17	1.12	44	.86
Diabetes . . .	4.88	11.27	142	3.96	140	9.23	282	5.52
Kidney dis-								
ease . . . .	1.69	4.19	67	1.87	75	4.94	142	2.78
Epilepsy . . .	.42	.58	11	.33	--	--	11	.26
Tuberculosis	4.88	8.81	120	3.34	137	9.02	257	5.03

Table X

## INJURIES

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Head . . . . .	5.30	2.32	175	4.87	33	2.17	208	4.07
Chest . . . . .	3.55	1.16	140	3.9	21	1.38	161	3.15
Abdomen . . . .	.76	.07	18	.50	1	.07	19	.37
Arm . . . . .	16.75	6.02	473	13.18	83	5.47	556	10.89
Leg . . . . .	7.99	4.92	272	7.58	53	3.62	325	6.36
Others . . . . .	1.91	3.43	96	2.67	56	3.69	152	2.98

Table XI

## OPERATIONS

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Head								
Tonsils . .	54.36	59.71	1688	47.02	905	59.62	2593	50.76
Adenoids .	41.12	11.42	960	26.85	125	8.23	1085	21.24
Others . .	3.47	6.15	127	3.53	61	4.02	188	3.68
Chest . . . .	.41	.71	16	.45	3	.20	19	.37
Abdomen . . .	8.54	11.66	333	9.28	162	10.67	495	9.69
Circum-								
cision . . .	22.15	--	238	6.63	---	--	238	4.66
Others . . . .	3.21	2.46	109	3.04	35	2.31	144	2.82



Table XII

## USE OF TEA, COFFEE, AND TOBACCO

	1941		Men No.		1942		Total No.	
	Men	Women			Men	Women		
	%	%		%	No.	%		%
Tea .....	1.98	43.26	648	18.05	649	42.75	1297	25.39
Coffee .....	4.31	47.21	1359	37.86	711	46.84	2070	40.52
Tobacco .....	36.05	29.21	807	22.48	389	25.63	1196	23.41
None of three.	33.49	23.57	1405	39.14	391	25.76	1796	35.18

Table XIII

## SLEEPING HABITS

	1941		Men No.		1942		Total No.	
	Men	Women			Men	Women		
	%	%		%	No.	%		%
Under 6 hours.	.15	.26	7	.20	4	.26	11	.22
6 to 7 hours .	11.2	12.96	384	10.7	198	13.04	582	11.39
8 to 9 hours .	83.55	80.30	3022	84.11	1204	79.31	4226	82.73
10 hours & over	5.10	6.48	177	4.93	112	7.38	289	5.66

Table XIV

## STUDENTS GIVING HISTORIES OF TYPHOID FEVER

Class of 1929 .....	4.08	Class of 1936 .....	2.21
Class of 1930 .....	3.72	Class of 1937 .....	2.28
Class of 1931 .....	2.79	Class of 1938 .....	2.57
Class of 1932 .....	2.83	Class of 1939 .....	1.46
Class of 1933 .....	3.02	Class of 1940 .....	1.14
Class of 1934 .....	2.09	Class of 1941 .....	.69
Class of 1935 .....	2.08	Class of 1942 .....	.94





Table XV

41.

RELATIVE OCCURRENCE OF CERTAIN DISEASES IN HISTORIES OF THE CLASS  
OF 1941

	1941				1942			
	Men %	Women %	Men No.	%	Women No.	%	Total No.	%
Appendicitis .....	8.28	13.54	343	9.55	191	12.58	534	10.45
Asthma .....	2.22	2.07	60	1.67	28	1.84	88	1.72
Chickenpox .....	55.56	72.15	2068	57.6	1113	73.32	3181	62.27
Chorea .....	.23	.26	3	.08	2	.13	5	.10
Constipation .....	1.12	6.86	30	.84	92	6.06	122	2.39
Diabetes .....	.42	.20	7	.19	1	.07	8	.16
Diphtheria .....	4.98	5.83	212	5.91	55	3.62	267	5.23
Discharging ear ....	3.38	6.67	112	3.12	104	6.85	216	4.23
Dysentery .....	.65	1.04	18	.50	18	1.19	36	.70
Epilepsy .....	.03	---	---	---	1	.006	1	.001
Heart trouble .....	2.01	3.75	88	2.45	53	3.49	141	2.76
Hay fever .....	5.98	7.32	211	5.88	98	6.46	309	6.05
Hernia (rupture) ...	2.98	.58	106	2.95	5	.33	111	2.17
Infantile Paralysis.	.73	.58	48	1.34	20	1.32	68	1.33
Influenza .....	12.99	22.31	357	9.94	251	16.53	608	11.90
Kidney trouble .....	1.31	3.59	48	1.34	44	2.90	92	1.80
Malaria .....	2.28	2.72	80	2.23	37	2.44	117	2.29
Measles .....	81.90	84.00	2869	79.92	1325	87.29	4194	82.11
German measles .....	17.49	33.03	732	20.39	496	32.61	1228	24.04
Meningitis .....	.36	.26	10	.28	4	.26	14	.27
Mumps .....	51.12	56.09	1907	53.12	807	53.16	2714	53.15
Nervous Breakdown ..	.38	1.10	7	.19	24	1.58	31	.61
Pleurisy .....	1.49	1.62	48	1.34	32	2.11	80	1.57
Pneumonia .....	9.95	11.66	335	9.33	171	11.26	506	9.90
Rheumatism .....	1.59	2.46	62	1.73	31	2.04	93	1.82
Scarlet fever .....	16.22	18.2	619	17.24	294	19.36	913	17.87
Sinusitis .....	3.68	4.27	127	3.54	79	5.20	206	4.03
Smallpox .....	2.99	2.20	117	3.26	39	2.57	156	3.05
Tonsillitis .....	16.59	24.87	575	16.02	307	20.22	882	17.27
Trachoma .....	.058	---	1	.028	1	.065	2	.003
Tuberculosis .....	.21	.13	9	.25	3	.20	12	.23
Typhoid fever .....	.67	.71	29	.81	19	1.25	48	.94
Undulant fever .....	---	.13	8	.22	1	.07	9	.18
Whooping cough .....	48.1	59.4	1772	49.36	961	63.31	2733	53.5
Others .....	1.95	2.69	147	4.09	36	2.37	183	3.58
IMMUNIZATIONS:								
Diphtheria .....	27.04	30.24	1216	33.87	466	30.70	1682	32.93
Scarlet fever .....	12.33	15.28	559	15.57	203	13.37	762	14.92
Smallpox .....	81.32	81.87	2841	79.14	1298	85.51	4139	81.03
Typhoid fever .....	18.49	11.40	736	20.50	202	13.31	938	18.36
TESTS:								
Schick .....	15.67	20.85	640	17.83	329	21.67	969	18.97
Dick .....	6.64	10.41	268	7.47	137	9.03	405	7.93



Table XVI

42.

## GENERAL DEVELOPMENT

	1941		1942					
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Excellent . . .	1.54	1.36	13	.36	16	1.05	29	.57
Good . . . . .	87.48	92.49	3377	94.07	1443	95.06	4820	94.36
Fair . . . . .	10.28	6.15	195	5.43	57	3.75	252	4.93
Poor . . . . .	.42	.20	5	.14	2	.13	7	.14
BUILD:								
Stocky . . . . .	11.18	12.04	316	8.80	154	10.14	470	9.20
Medium . . . . .	73.25	50.72	2587	72.06	692	45.59	3279	91.34
Slender . . . . .	15.57	37.24	687	19.14	672	44.27	1359	26.61

Table XVII

## COLOR OF EYES

	1941		1942					
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Blue .....	43.29	38.86	1489	41.50	550	36.23	2039	39.92
Gray .....	7.64	5.91	204	5.69	106	6.98	310	6.07
Greenish .....	7.23	10.45	261	7.27	146	9.62	407	7.97
Hazel .....	4.60	12.1	361	10.06	220	14.49	581	11.37
Brown .....	36.58	32.06	1254	34.93	465	30.63	1719	33.65
Black .....	.65	.52	21	.38	31	2.04	52	1.02

Table XVIII

## COLOR OF HAIR

	1941		1942					
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Flaxen .....	4.39	6.22	333	9.27	169	11.13	502	9.83
Reddish .....	2.80	3.76	107	2.98	61	4.02	168	3.29
Light brown ..	21.08	33.28	875	24.37	454	29.91	1329	26.02
Brown .....	39.73	28.43	1187	33.06	441	29.05	1628	31.87
Dark brown ...	20.40	24.17	571	15.91	301	19.82	872	17.07
Black .....	11.60	4.14	517	14.40	92	6.06	609	11.92





Table XIX

## TEETH

	1941						1942		Total	
	Men	Women	Men		Women		Women		Total	
	%	%	No.	%	No.	%	No.	%	No.	%
Cavities .....	20.45	8.94	694	19.33	105	6.92	799	15.64		
Absent .....	38.38	26.10	1612	44.90	352	23.19	1964	38.45		
Need cleaning ..	19.55	3.37	498	13.87	38	2.50	536	10.49		
Diseased gums ..	1.62	1.31	50	1.39	21	1.38	71	1.39		
No cavities, none absent ...	45.89	52.46	1534	42.73	994	65.48	2528	49.69		
Teeth devital- ized .....	5.59	2.98	121	3.37	46	3.03	167	3.27		

Table XX

## ABNORMALITIES OF THE HEART

	1941						1942		Total	
	Men	Women	Men		Women		Women		Total	
	%	%	No.	%	No.	%	No.	%	No.	%
Abnormalities ..	.67	1.62	56	1.56	13	.86	69	1.35		
Irregular pulse.	.26	.52	5	.14	10	.66	15	.29		

Table XXI

## THYROID ENLARGEMENT

	1941						1942		Total	
	Men	Women	Men		Women		Women		Total	
	%	%	No.	%	No.	%	No.	%	No.	%
Enlarged										
Slight .....	.16	15.0	24	.67	186	12.25	210	4.11		
Moderate .....	.02	1.22	2	.16	20	1.32	22	.43		
Marked .....	.02	.06	--	--	--	--	--	--		
Evidence of toxicity .....	.08	.06	--	--	5	.33	5	.10		





Table XXII

## CHEST AND LUNGS

	1941						1942		Total	
	Men	Women	Men		Women		Women		Total	
	%	%	No.	%	No.	%	No.	%	No.	%
Lungs, abnormal..	.26	.52	10	.23	3	.20	13	.25		
Chest										
Flat .....	2.34	4.86	94	2.62	103	6.79	197	3.86		
Funnel .....	.44	2.69	47	1.31	37	2.44	84	1.64		
Pigeon .....	.26	.82	6	.17	21	1.38	27	.53		

Table XXIII

## CONDITION OF ABDOMINAL WALLS

	1941						1942		Total	
	Men	Women	Men		Women		Women		Total	
	%	%	No.	%	No.	%	No.	%	No.	%
Abnormal .....	.058	.32	4	.11	12	.79	16	.31		
Hernia .....	1.20	.26	31	.86	3	.20	34	.67		

Table XXIV

## INCIDENCE OF ENLARGED LYMPH GLANDS

	1941						1942		Total	
	Men	Women	Men		Women		Women		Total	
	%	%	No.	%	No.	%	No.	%	No.	%
Epitrochlear ....	2.14		113	3.15	1	.07	114	2.23		
Axillary .....	5.46	1.54	156	4.35	13	.86	169	3.31		
Cervical .....	6.77	11.71	301	8.38	176	11.59	477	9.32		
Inguinal .....	18.67	2.23	646	17.99	54	3.56	700	13.70		

Table XXV

## HERNIA IN MEN

Class of 1929 .....	1.51	Class of 1936 .....	.71
Class of 1930 .....	1.35	Class of 1937 .....	1.19
Class of 1931 .....	1.26	Class of 1938 .....	1.16
Class of 1932 .....	1.41	Class of 1939 .....	.76
Class of 1933 .....	1.74	Class of 1940 .....	.70
Class of 1934 .....	1.30	Class of 1941 .....	1.20
Class of 1935 .....	1.71	Class of 1942 .....	.86



Table XXVI

## GENITO-URINARY ORGANS

	<u>1941</u> %	<u>No.</u>	<u>1942</u> %
Testes Abnormal .....	.55	13	.36
Circumcision .....	37.77	1122	31.25

Table XXVII

## CRYPTORCHIDISM

Class of 1929 .....	.75	Class of 1936 .....	.28
Class of 1930 .....	.71	Class of 1937 .....	.32
Class of 1931 .....	.38	Class of 1938 .....	.43
Class of 1932 .....	.60	Class of 1939 .....	.03
Class of 1933 .....	.32	Class of 1940 .....	.29
Class of 1934 .....	.70	Class of 1941 .....	.18
Class of 1935 .....	.48	Class of 1942 .....	.12

Table XXVIII

## URINALYSIS

	<u>1941</u>				<u>1942</u>		<u>Total</u>	
	<u>Men</u>	<u>Women</u>			<u>Men</u>	<u>Women</u>	<u>No.</u>	<u>%</u>
	%	%	<u>No.</u>	%	<u>No.</u>	%	<u>No.</u>	%
Acid .....	75.42	70.72	3071	85.54	842	56.12	3913	76.61
Alkaline ...	22.05	24.07	177	4.93	323	21.28	500	9.79
Neutral ....	2.53	5.21	342	9.53	139	9.16	481	9.42
Sugar .....	.13	4.81	4	.11	21	1.38	25	.49
Albumin ....	3.74	6.24	51	1.42	68	4.51	119	2.33





Table XXIX

## GLYCOSURIA AND ALBUMINURIA OVER A PERIOD OF YEARS

	<u>Sugar</u>			<u>Albumin</u>	
	<u>Men</u>	<u>Women</u>		<u>Men</u>	<u>Women</u>
	<u>%</u>	<u>%</u>		<u>%</u>	<u>%</u>
Class of 1929 .....	.12	.07	.....	3.75	.49
Class of 1930 .....	.19	.60	.....	7.33	4.4
Class of 1931 .....	.58	1.86	.....	5.71	2.75
Class of 1932 .....	.06	.48	.....	3.6	2.1
Class of 1933 .....	.09	.85	.....	2.62	1.44
Class of 1934 .....	.21	.79	.....	5.65	2.97
Class of 1935 .....	.22	1.29	.....	5.40	4.2
Class of 1936 .....	.52	1.19	.....	6.7	2.87
Class of 1937 .....	.52	—	.....	4.97	1.15
Class of 1938 .....	.86	2.13	.....	4.59	3.66
Class of 1939 .....	.42	.59	.....	4.94	4.69
Class of 1940 .....	.43	.78	.....	6.06	2.47
Class of 1941 .....	.13	4.81	.....	3.74	6.24
Class of 1942 .....	.06	1.58	.....	.19	.92

Table XXX

## FOOT ABNORMALITIES

	1941			1942			Total	
	<u>Men</u>	<u>Women</u>		<u>Men</u>	<u>Women</u>		<u>No.</u>	<u>%</u>
	<u>%</u>	<u>%</u>		<u>No.</u>	<u>%</u>		<u>No.</u>	<u>%</u>
Long Arches								
1st degree	10.48	25.39	356	9.92	413	27.21	769	15.05
2nd degree	5.40	12.46	197	5.49	166	10.94	363	7.11
3rd degree	1.39	4.60	58	1.62	41	2.70	99	1.94
Anterior Arches	10.28	34.89	351	9.78	492	32.35	843	16.50
Abnormalities								
of feet ....	.03	.40	1	.03	45	2.96	46	.90



Table XXXI

## FOOT ABNORMALITIES OVER A PERIOD OF YEARS

		Long Arches						Anterior Arches flat	
		1st Degree		2nd Degree		3rd Degree		Men	Women
		Men	Women	Men	Women	Men	Women		
		%	%	%	%	%	%	%	%
Class of 1932	..	18.4	17.5	10.9	27.8	2.5	19.8	27.1	27.5
Class of 1933	..	9.99	17.3	7.74	17.17	1.33	5.94	15.23	42.17
Class of 1934	..	19.5	11.68	9.73	9.3	2.03	1.51	22.31	28.41
Class of 1935	..	15.9	19.2	9.5	8.7	1.08	1.6	19.6	35.9
Class of 1936	..	18.3	36.4	9.5	10.	.99	2.18	28.3	29.
Class of 1937	..	14.3	32.9	7.1	12.3	2.4	2.72	22.2	34.
Class of 1938	..	15.82	25.21	6.98	7.84	2.36	1.68	18.98	20.49
Class of 1939	..	11.92	32.16	5.52	7.03	2.46	1.98	14.47	7.47
Class of 1940	..	7.84	27.83	2.26	9.95	1.08	2.08	10.29	39.01
Class of 1941	..	10.48	25.39	5.40	12.76	1.39	4.60	10.28	34.89
Class of 1942	..	9.92	27.21	5.49	10.94	1.62	2.70	9.78	2.96

Table XXXII

## SPINE ABNORMALITIES

	1941				1942			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Kyphosis ....	1.88	12.1	48	1.34	132	8.70	180	3.52
Lordosis ....	2.40	16.06	48	1.34	147	9.68	195	3.82
Scoliosis....	1.75	6.42	29	.81	66	4.35	95	1.86

Table XXXIII

## NOSE ABNORMALITIES

	1941				1942			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Spur .....	3.06	.52	127	3.54	7	.46	134	2.62
Deviated Septum .....	13.63	14.25	356	9.92	173	11.40	529	10.36
Atrophied ...	.63	.20	5	.14	3	.20	8	.16
Hypertrophy .	7.64	12.37	83	2.31	62	4.08	145	2.84





Table XXXIV

## THROAT ABNORMALITIES

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
TONSILS:								
Removed .....	51.51	59.71	1795	50.0	905	59.62	2700	52.66
Tags .....	5.28	10.82	183	5.10	173	11.40	356	6.97
Pathological ..	10.31	11.59	248	6.91	119	7.84	367	7.18

Table XXXV

## PERCENTAGE OF STUDENTS WITH TONSILS REMOVED OVER A PERIOD OF YEARS

	Men	Women		Men	Women
Class of 1929..	28.78	33.77	Class of 1936 .	44.	50.1
Class of 1930 .	30.76	38.3	Class of 1937 .	45.3	52.1
Class of 1931 .	35.77	42.42	Class of 1938 .	52.19	57.19
Class of 1932 .	37.3	37.2	Class of 1939 .	49.20	56.26
Class of 1933 .	42.48	45.56	Class of 1940 .	46.59	57.54
Class of 1934 .	42.41	41.1	Class of 1941 .	51.51	59.71
Class of 1935 .	45.4	52.2	Class of 1942 .	50.0	59.62

Table XXXVI

## EARS

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Perforated .....	.76	.52	17	.47	10	.66	27	.53
Cerumen .....	6.04	22.15	212	5.91	324	21.34	536	10.49
Hearing Abnormal .	.44	1.53	3	.08	10	.66	13	.25





Table XXXVII

## EYES

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	<u>%</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Abnormal								
Color Vision .	.03	4.14	4	.11	0	--	4	.08
Refraction								
O. D. only ....	5.04	9.26	418	11.64	108	7.11	526	10.30
O. S. only ....	6.07	8.09	472	13.15	73	4.81	545	10.67
Both O.D. and								
O.S. ....	27.74	22.09	1082	30.14	421	27.73	1503	29.42
Corrected with								
glasses .....	12.60	27.96	288	8.02	238	15.68	526	10.30

Table XXXVIII

## POSTURE

	1941		1942				Total	
	Men	Women	Men		Women		Total	
	<u>%</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Restricted								
flexibility .	.11	.26	6	.17	14	.92	20	.39
Excellent .....	1.53	1.82	8	.22	23	1.52	31	.61
Good .....	84.55	63.26	3363	93.68	1285	84.65	4648	90.99
Fair .....	13.22	33.94	180	5.01	206	13.57	386	7.56
Poor .....	1.30	.98	39	1.09	4	.26	43	.84

Table XXXIX

## INCIDENCE OF HISTORY OF VENEREAL DISEASE

	Men		1942 Women		Total	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Gonorrhea .....	3	.08	--	--	3	.06
Syphilis .....	1	.03	--	--	1	.02
Chancroid .....	0	----	--	--	--	----



Table XL

## INCIDENCE OF VACCINATION SCARS

	1942					
	Men		Women		Total	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Arm .....	3189	88.83	937	61.73	4126	80.78
Leg .....	128	3.57	412	27.14	540	10.57
None .....	273	7.60	169	11.13	442	8.65

Table XLI

## SKIN DISEASES

	1942					
	Men		Women		Total	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Acne .....	531	14.79	612	40.32	1143	22.38
Mycosis .....	514	14.32	245	16.14	759	14.86
Others .....	29	.81	18	1.19	47	.92





TWENTY-THIRD ANNUAL REPORT

APPENDIX B



## APPENDIX B

Table I

## SUMMARY OF MEDICAL HISTORIES

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Total number examined .....	3590	1518	5108	5372
Total number re-examined .....	1785	1043	2828	3989
Inheritable diseases				
Apoplexy (family history) ..	14	29	43	50
Cancer ( " " ) ..	522	194	716	558
Goiter ( " " ) ..	117	112	229	287
Mental disturbances				
(family history) .....	27	17	44	59
Diabetes (family history) ..	142	140	282	361
Epilepsy ( " " ) ..	11	---	11	25
Kidney disease (family history) .....	67	75	142	130
Tuberculosis (family history) .....	120	137	257	325
Birthplace				
Illinois .....	2540	1065	3605	3816
Elsewhere .....	1050	453	1503	1556
Work for self-support				
during college .....	1945	330	2275	2220
Use laxatives frequently ....	68	126	194	201
Sleep				
Under 6 hours .....	7	4	11	10
6-7 hours .....	384	198	582	630
8-9 hours .....	3022	1204	4226	4337
10 hours and over .....	177	112	289	295
Habits				
Coffee .....	1359	711	2070	2378
Tea .....	648	649	1297	1429
Tobacco .....	807	389	1196	1831
None of the three .....	1405	391	1796	1646
Age started smoking				
Younger than 10 years .....	4	---	4	---
10-14 years .....	45	10	55	55
15-19 years .....	1015	341	1356	1604
20-24 years .....	111	26	137	167
25 years and over .....	10	12	22	6
Meals per day				
One .....	---	1	1	35
Two .....	42	61	103	810
Three .....	3541	1439	4980	4494
More than three .....	7	17	24	32
Weight the past year				
Gained .....	1259	413	1672	1850
Lost .....	262	265	527	603
Stationary .....	2069	840	2909	2919



Table I--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Easily fatigued .....	95	237	332	371
Subject to frequent colds in				
Nose .....	436	278	714	967
Throat .....	99	143	242	405
Lungs .....	16	22	38	105
When reading, bothered with				
Headaches .....	142	146	288	337
Blurring of vision .....	86	89	175	183
Burning of eyes .....	119	117	236	248
Squinting of eyes .....	59	74	133	134
Watering of eyes .....	92	52	144	156
Twitching of eyes .....	41	60	101	135
Persistently worry .....	86	95	181	190
Have the "blues" .....	115	160	275	323
Injuries				
Head .....	175	33	208	239
Chest .....	140	21	161	154
Abdomen .....	18	1	19	30
Arm .....	473	83	556	734
Leg .....	272	53	325	382
Others .....	96	56	152	126
Operations				
Head				
tonsils .....	1688	905	2593	3003
adenoids .....	960	125	1085	1751
others .....	127	61	188	228
Chest .....	16	3	19	27
Abdomen .....	333	162	495	507
Circumcision .....	238	---	238	848
Others .....	109	35	144	161
Arches of feet painful .....	69	64	133	146
Possible reasons for not taking				
Physical education .....	146	90	236	208
Military science .....	202	--	202	140
Diseases had				
Appendicitis .....	343	191	534	526
Asthma .....	60	28	88	117
Chickenpox .....	2068	1113	3181	3241
Chorea .....	3	2	5	13
Constipation .....	30	92	122	149
Diabetes .....	7	1	8	19
Diphtheria .....	212	55	267	280
Discharging ear .....	112	104	216	230
Dysentery .....	18	18	36	41
Epilepsy .....	---	1	1	1
Heart trouble .....	88	53	141	135
Hay fever .....	211	98	309	339





Table I--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Diseases had (Cont'd)				
Hernia (rupture) .....	106	5	111	121
Infantile paralysis .....	48	20	68	37
Influenza .....	357	251	608	840
Kidney trouble .....	48	44	92	105
Malaria .....	80	37	117	129
Measles .....	2869	1325	4194	4432
German measles .....	732	496	1228	1189
Meningitis .....	10	4	14	18
Mumps .....	1907	807	2714	2823
Nervous breakdown .....	7	24	31	32
Pleurisy .....	48	32	80	82
Pneumonia .....	335	171	506	561
Rheumatism .....	62	31	93	100
Scarlet fever .....	619	294	913	902
Sinusitis .....	127	79	206	207
Smallpox .....	117	39	156	148
Tonsillitis .....	575	307	882	1019
Trachema .....	1	1	2	2
Tuberculosis .....	9	3	12	10
Typhoid fever .....	29	19	48	37
Undulant fever .....	8	1	9	2
Whooping cough .....	1772	961	2733	2757
Others .....	147	36	183	116
Immunizations				
Diphtheria .....	1216	466	1682	1502
Scarlet fever .....	559	203	762	708
Smallpox .....	2841	1298	4139	4376
Typhoid fever .....	736	202	938	884
Tests				
Schick .....	640	329	969	922
Dick .....	268	137	405	412

Table II

## SUMMARY OF PHYSICAL EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Color of hair				
Flaxen .....	333	169	502	265
Reddish .....	107	61	168	165
Light Brown .....	875	454	1329	1321
Dark brown .....	571	301	872	1152
Brown .....	1187	441	1628	1950
Black .....	517	92	609	518



Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Color of eyes				
Blue .....	1489	550	2039	2253
Gray .....	204	106	310	384
Greenish .....	261	146	407	438
Hazel .....	361	220	581	364
Brown .....	1254	465	1719	1895
Black .....	21	31	52	37
Vision abnormal without glasses				
Both eyes .....	1082	421	1503	1403
Right eye (O. D.) .....	418	108	526	336
Left eye (O. S.) .....	472	73	545	354
Corrected with glasses .....	288	238	526	909
Color vision abnormal .....	4	---	4	65
Ears				
Right ear				
Cerumen .....	109	168	277	311
Perforated drum .....	10	4	14	16
Hearing abnormal .....	2	6	8	20
Left ear				
Cerumen .....	103	156	259	259
Perforated drum .....	7	6	13	21
Hearing abnormal .....	1	4	5	20
Nose				
Spur .....	127	7	134	125
Deviation .....	356	173	529	742
Chronic hypertrophy .....	83	62	145	483
Atrophy .....	5	3	8	27
Tonsils				
Removed .....	1795	905	2700	2894
Tags .....	183	173	356	369
Pathological .....	248	119	367	573
Teeth				
No cavities or absent .....	1534	994	2528	2563
Cavities .....	694	105	799	921
Absent .....	1612	352	1964	1882
Need cleaning .....	498	38	536	802
Devitalized .....	121	46	167	260
Gums diseased .....	50	21	71	82





Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u>	<u>Class of '41</u>
Weight				
Below 100 pounds .....	*	104		
100-115 incl. ....		488		
116-130 .....		541		
131-145 .....		245		
146-160 .....		98		
161-175 .....		29		
176-190 .....		9		
191-over .....		4		
Height				
Below 50 inches .....	*	--		
50-59 incl. ....		53		
60-69 .....		626		
70-79 .....		493		
80-89 .....		316		
90-99 .....		30		
100-over .....		--		
Skin				
Acne .....	531	612	1143	1437
Mycosis .....	514	245	759	680
Other skin diseases .....	29	18	47	27
Vaccination scar				
Arm .....	3189	937	4126	4047
Leg .....	128	412	540	376
None .....	273	169	442	1149
General development				
Excellent .....	13	16	29	81
Good .....	3377	1443	4820	4775
Fair .....	195	57	252	488
Poor .....	5	2	7	19
Build				
Stocky .....	316	154	470	614
Medium .....	2587	692	3279	3587
Slender .....	687	672	1359	1171
Chest				
Flat .....	94	103	197	164
Funnel .....	47	37	84	58
Pigeon .....	6	21	27	23
Vertebral Column				
Kyphosis .....	48	132	180	260
Lordosis .....	48	147	195	340
Scoliosis .....	29	66	95	166



Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Posture				
Excellent .....	8	23	31	89
Good .....	3363	1285	4648	4290
Fair .....	180	206	386	930
Poor .....	39	4	43	65
Restricted flexibility ...	6	14	20	8
Lymph nodes				
Axillary .....	156	13	169	225
Cervical .....	301	176	477	440
Epitrochlear .....	113	1	114	82
Inguinal .....	646	54	700	748
Thyroid				
Enlarged .....				
Slight .....	24	186	210	238
Moderate .....	2	20	22	20
Marked .....	--	--	--	2
Evidence of toxicity .....	--	5	5	4
Lungs, abnormal .....	10	3	13	18
Heart				
Abnormal .....	56	13	69	51
Irregular pulse .....	5	10	15	18
Abdomen, abnormal .....	4	12	16	7
Reflexes				
Patellar .....	28	35	63	97
Romberg .....	13	4	17	14
Pupillary .....	66	4	70	88
Penis, circumcised .....	1122		1122	1446
Testes, abnormal .....	13		13	21
Hernia, present .....	31	3	34	50
Hemorrhoids, present .....	10	8	18	55
Varicocelo, present .....	126		126	194
Flat feet				
Long Arches				
first degree .....	356	413	769	793
second degree .....	197	166	363	404
third degree .....	58	41	99	124
Anterior arches flat .....	351	492	843	932
Abnormalities .....	1	45	46	7
Had venereal disease				
Gonorrhea .....	3		3	11
Syphilis .....	1		1	--
Chancroid .....	--	--	--	1
Physical defects				
Amputations .....	7		7	10
Atrophies .....	10	1	11	23
Unusual scars .....	192	42	234	339
Deformities .....	30	10	40	56



Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '42</u> <u>Total</u>	<u>Class of '41</u> <u>Total</u>
Urine				
Acid .....	3071	842	3913	3871
Alkaline .....	177	323	500	1213
Neutral.....	342	139	481	177
Albumin				
Persistent .....	7	14	21	36
Transitory .....	44	54	98	203
Sugar				
Persistent .....	2	--	2	2
Transitory .....	2	21	23	77
Menses				
Regular .....	--	1241	1241	1289
Irregular .....	--	277	277	255
Pain				
Severe .....	--	251	251	269
Slight .....	--	530	530	627





SUBNORMAL DEVELOPMENT OF MEN STUDENTS  
AS DETERMINED BY MINIMUM STANDARDS  
OF THE WAR DEPARTMENT

				<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Grand Total</u>
Underheight and underweight (under 64" and 120 lbs.) .....				15	1	2	18
Underheight (under 64"; 120 lbs. or over) .....				28	6	8	42

<u>Height</u>	<u>Weight</u>	<u>Chest at</u>	<u>Satisfactory</u>				<u>Underdev. Chest</u>			
		<u>Expiration</u>	<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>	<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>
64 ...	120 ...	30 .....	30	13	13	56	-	-	-	-
65 ...	121 ...	30' .....	56	33	29	120	-	-	-	-
66 ...	122 ...	30 $\frac{1}{4}$ .....	113	57	38	208	2	-	-	2
67 ...	124 ...	30 $\frac{1}{2}$ .....	240	93	54	387	1	-	1	2
68 ...	126 ...	30 $\frac{3}{4}$ ...	281	119	95	495	-	2	1	3
69 ...	128 ...	31 .....	328	121	65	514	4	2	1	7
70 ...	130 ...	31 $\frac{1}{4}$ .....	281	119	71	471	4	2	1	7
71 ...	133 ...	31 $\frac{3}{4}$ ...	208	110	57	375	1	-	-	1
72 ...	138 ...	32 $\frac{1}{4}$ .....	148	52	30	230	10	1	3	14
73 ...	143 ...	32 $\frac{3}{4}$ ...	89	42	15	146	2	2	1	5
74 ...	148 ...	33 $\frac{1}{2}$ .....	34	11	11	56	1	-	-	1
75 ...	155 ...	34 $\frac{1}{2}$ .....	10	3	5	18	-	2	-	2
76 ...	161 ...	34 $\frac{3}{4}$ ...	6	-	-	6	-	-	-	-
77 ...	168 ...	35 $\frac{1}{4}$ .....	1	-	-	1	-	-	-	-
78 ...	175 ...	35 $\frac{3}{4}$ ...	-	-	-	-	-	-	-	-
Totals			1827	773	483	3083	25	11	8	44



SUBNORMAL DEVELOPMENT OF MEN STUDENTS  
AS DETERMINED BY MINIMUM STANDARDS  
OF THE WAR DEPARTMENT  
(cont'd)

<u>Height</u>	<u>Weight</u>	<u>Chest at</u>		<u>Underweight</u>				<u>Underdev. Chest and Underweight</u>			
		<u>Expiration</u>		<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>	<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>
64 ..	120 ....	30 ....		7	3	7	17	1	-	-	1
65 ..	121 ....	30 ....		12	5	4	21	4	1	-	5
66 ..	122 ....	30 $\frac{1}{4}$ ....		21	3	5	29	7	7	-	14
67 ..	124 ....	30 $\frac{1}{2}$ ....		24	8	11	43	11	-	1	12
68 ..	126 ....	30 $\frac{3}{4}$ .		32	15	8	55	12	4	-	16
69 ..	128 ....	31 ....		23	11	13	47	10	5	1	16
70 ..	130 ....	31 $\frac{1}{4}$ ....		25	3	7	35	11	5	-	16
71 ..	133 ....	31 $\frac{3}{4}$ .		8	6	5	19	10	1	-	11
72 ..	138 ....	32 $\frac{1}{4}$ ....		7	2	1	10	3	5	-	8
73 ..	143 ....	32 $\frac{3}{4}$ .		7	3	-	10	6	2	1	9
74 ..	148 ....	33 $\frac{1}{2}$ ....		6	-	3	9	1	-	1	2
75 ..	155 ....	34 $\frac{1}{4}$ ....		3	1	-	4	1	-	-	1
76 ..	161 ....	34 $\frac{3}{4}$ .		1	-	-	1	1	1	-	2
77 ..	168 ....	35 $\frac{1}{4}$ ....		-	-	-	-	-	-	-	-
78 ..	175 ....	35 $\frac{3}{4}$ .		-	-	-	-	-	-	-	-
Totals .....				176	60	64	300	78	31	4	113





SUBNORMAL DEVELOPMENT OF MEN STUDENTS  
AS DETERMINED BY MINIMUM STANDARDS  
OF THE WAR DEPARTMENT  
(cont'd)

<u>Height</u>	<u>Weight</u>	<u>Chest at</u> <u>Expiration</u>	<u>Urban</u>	<u>Grand</u> <u>Rural</u>	<u>Totals</u> <u>Out-S</u>	<u>Total</u>
64 ...	120	..... 30 .....	8	3	7	18
65 ...	121	..... 30 .....	16	6	4	26
66 ...	122	..... $30\frac{1}{4}$ .....	30	10	5	45
67 ...	124	..... $30\frac{1}{2}$ .....	36	8	13	57
68 ...	126	..... $30\frac{3}{4}$ .....	44	21	9	74
69 ...	128	..... 31 .....	37	18	15	70
70 ...	130	..... $31\frac{1}{4}$ .....	40	10	8	58
71 ...	133	..... $31\frac{3}{4}$ .....	19	7	5	31
72 ...	138	..... $32\frac{1}{4}$ .....	20	8	4	32
73 ...	143	..... $32\frac{3}{4}$ .....	15	7	2	24
74 ...	148	..... $33\frac{1}{2}$ .....	8	-	4	12
75 ...	155	..... $34\frac{1}{4}$ .....	4	3	-	7
76 ...	161	..... $34\frac{3}{4}$ .....	2	1	-	3
77 ...	168	..... $35\frac{1}{4}$ .....	-	-	-	-
78 ...	175	..... $35\frac{3}{4}$ .....	-	-	-	-
Totals .....			279	102	76	457



TWENTY-THIRD ANNUAL REPORT

APPENDIX C



## APPENDIX C

## CIVIL SERVICE EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Total number examined .....	218	7	225
Married .....	153	4	157
Widower, Widow .....	17	---	17
Single .....	48	3	51
Age			
Under 20 .....	13	---	13
20-29 years .....	54	3	57
30-39 years .....	65	---	65
40-49 years .....	43	3	46
50 years and over .....	43	1	44
Inheritable diseases			
Tuberculosis .....	10	1	11
Cancer .....	19	1	20
Neurasthenia .....	2	---	2
Epilepsy .....	1	---	1
Others .....	4	---	4
Birthplace			
Illinois .....	162	5	167
Elsewhere .....	56	2	58
Injuries			
Head .....	9	---	9
Chest .....	6	---	6
Abdomen .....	---	---	---
Arm .....	23	---	23
Leg .....	11	---	11
Others .....	19	---	19
Operations			
Head			
Tonsils .....	35	3	38
Adenoids .....	13	1	14
Others .....	10	---	10
Chest .....	1	---	1
Abdomen .....	6	---	6
Circumcision .....	4	---	4
Others .....	22	---	22
Vaccinations			
Typhoid Fever .....	77	5	82
Smallpox .....	116	7	123
Age of vaccination scar			
Under 10 years .....	72	---	72
10-20 years .....	31	3	34
Over 20 years .....	77	2	79
Sleep			
Under 6 hours .....	---	---	---
6-7 hours .....	25	1	26
8-9 hours .....	183	6	189
10 hours and over .....	10	---	10





	<u>Men</u>	<u>Women</u>	<u>Total</u>
<b>Habits</b>			
Tea .....	48	6	54
Coffee .....	177	5	182
Tobacco .....	169	---	169
Alcohol .....	50	---	50
Drugs .....	---	---	---
None of the above .....	5	1	6
<b>Diseases Had</b>			
Measles .....	184	7	191
Rubella .....	10	---	10
Mumps .....	140	4	144
Chickenpox .....	97	4	101
Whooping cough .....	110	4	114
Scarlet fever .....	26	3	29
Typhoid fever .....	17	---	17
Diphtheria .....	15	1	16
Meningitis .....	---	---	---
Malaria .....	8	---	8
Smallpox .....	15	2	17
Pneumonia .....	27	---	27
Asthma .....	---	---	---
Pleurisy .....	1	---	1
Rheumatism .....	9	1	10
Tonsillitis .....	26	3	29
Chorea .....	---	---	---
Influenza .....	40	4	44
Otitis media .....	3	---	3
Gonorrhea .....	9	---	9
Syphilis .....	---	---	---
Chancroid .....	2	---	2
Constipation .....	4	---	4
Dysentery .....	1	---	1
Appendicitis .....	10	---	10
Neurasthenia .....	---	---	---
Poliomyelitis .....	1	---	1
Tuberculosis .....	1	---	1
Glasses .....	48	6	54
Others .....	5	---	5

## SUMMARY OF PHYSICAL EXAMINATIONS

<b>Color of hair</b>			
Flaxen .....	13	---	13
Reddish .....	8	---	8
Light brown .....	40	2	42
Dark brown .....	24	3	27
Brown .....	90	---	90
Black .....	33	---	33
Gray .....	10	2	12



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Color of eyes			
Blue .....	120	4	124
Gray .....	16	--	16
Greenish .....	9	1	10
Hazel .....	14	--	14
Brown .....	57	2	59
Black .....	2	--	2
Vision abnormal without glasses			
Both eyes .....	70	1	71
Right eye (O.D.) .....	15	1	16
Left eye (O.S.) .....	18	1	19
Corrected with glasses .....	7	1	8
Colorblind .....	--	--	--
Manifest astigmatism .....	--	2	2
Ears			
Right ear			
Cerumen .....	6	--	6
Perforated drum .....	1	--	1
Hearing abnormal .....	1	1	2
Left ear			
Cerumen .....	6	--	6
Perforated drum .....	--	--	--
Hearing abnormal .....	--	1	1
Nose			
Spur .....	3	--	3
Deviation .....	27	1	28
Chronic hypertrophy .....	4	--	4
Atrophy .....	--	--	--
Tonsils			
Removed .....	55	4	59
Tags .....	9	--	9
Pathological .....	13	--	13
Teeth			
No cavities or absent .....	33	--	33
Cavities .....	47	--	47
Absent .....	163	7	170
Need cleaning .....	107	1	108
Devitalized .....	23	1	24
Gums diseased .....	23	--	23
Skin			
Acne .....	10	2	12
Mycosis .....	15	3	18
Other skin diseases .....	5	--	5
Vaccination scar			
Arm .....	190	5	195
Leg .....	--	--	--
None .....	28	2	30
General Development			
Excellent .....	--	--	--
Good .....	202	7	209
Fair .....	13	--	13
Poor .....	3	--	3







	<u>Men</u>	<u>Women</u>	<u>Total</u>
Build			
Stocky .....	29	2	31
Medium .....	151	3	154
Slender .....	38	2	40
Chest			
Flat .....	9	--	9
Funnel .....	1	--	1
Pigeon .....	--	--	--
Vertebral column			
Kyphosis .....	9	2	11
Lordosis .....	9	1	10
Scoliosis .....	--	--	--
Posture			
Excellent .....	--	--	--
Good .....	192	6	198
Fair .....	21	1	22
Poor .....	5	--	5
Restricted flexibility .....	--	--	--
Lymph nodes			
Axillary .....	3	--	3
Cervical .....	11	--	11
Epitrochlear .....	3	--	3
Inguinal .....	28	1	29
Thyroid			
Enlarged			
Slight .....	1	3	4
Moderate .....	--	--	--
Marked .....	--	--	--
Evidence of toxicity .....	--	--	--
Lungs, abnormal .....	2	--	2
Heart, abnormal .....	3	--	3
Irregular pulse .....	--	--	--
Abdomen, abnormal .....	1	--	1
Reflexes			
Patellar .....	1	--	1
Romberg .....	1	--	1
Pupillary .....	2	--	2
Penis, circumcised .....	40	--	40
Testes, abnormal .....	--	--	--
Hernia, present .....	12	--	12
Varicocele, present .....	9	--	9
Hemorrhoids, present .....	8	--	8
Flat feet			
Long arches			
First degree .....	29	--	29
Second degree .....	11	1	12
Third degree .....	4	1	5
Anterior arches flat .....	16	1	17
Abnormalities .....	--	2	2
Had venereal disease			
Gonorrhea .....	15	--	15
Syphilis .....	5	--	5
Chancroid .....	--	--	--
Physical defects			
Amputations .....	6	--	6



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Atrophies .....	3	--	3
Unusual scars .....	15	2	17
Deformities .....	4	--	4
Urine			
Acid .....	194	6	200
Alkaline .....	13	--	13
Neutral .....	11	1	12
Albumin			
Persistent .....	--	--	--
Transitory .....	9	--	9
Unclassified .....	--	--	--
Sugar			
Persistent .....	--	--	--
Transitory .....	2	--	2
Unclassified .....	--	--	--
Weight			
Below 100 lbs. ....	--	--	--
100-115 incl. ....	7	2	9
116-130 .....	35	2	37
131-145 .....	58	2	60
146-160 .....	59	--	59
161-175 .....	24	--	24
176-190 .....	20	1	21
191 and over .....	15	--	15
Height			
Below 50 inches ....	--	--	--
50-59 .....	--	--	--
60-62 .....	1	5	6
63-65 .....	19	2	21
66-68 .....	97	--	97
69-71 .....	87	--	87
72 and over .....	14	--	14



TWENTY-THIRD ANNUAL REPORT

APPENDIX D





## UNIVERSITY HIGH SCHOOL EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Total number examined.....	53	50	103
Total number reexamined .....	28	41	69
Inheritable diseases			
Apoplexy .....	1	1	2
Cancer.....	12	8	20
Goiter .....	2	5	7
Mental disturbances .....	--	--	--
Diabetes .....	1	5	6
Epilepsy .....	--	--	--
Kidney disease .....	1	1	2
Tuberculosis.....	1	7	8
Birthplace			
Illinois .....	44	36	80
Elsewhere .....	9	14	23
Work for self-support .....	--	2	2
Use laxatives frequently.....	1	5	6
Sleep			
Under 6 hours .....	--	--	--
6-7 hours .....	1	--	1
8-9 hours .....	28	14	42
10 hours and over .....	24	36	60
Habits			
Coffee .....	5	11	16
Tea .....	9	13	22
Tobacco.....	6	1	7
None of the three .....	36	29	65
Age started smoking			
Younger than 10 years .....	--	--	--
10-14 years .....	1	--	1
15-19 years .....	5	1	6
Meals per day			
One .....	--	--	--
Two .....	--	1	1
Three.....	52	49	101
More than three .....	1	--	1
Weight the past year			
Gained .....	45	31	76
Lost .....	--	5	5
Stationary.....	8	14	22
Easily fatigued .....	2	3	5
Menses			
Regular .....	--	27	27
Irregular .....	--	2	2
Pain			
Severe.....	--	1	1
Slight.....	--	8	8
Menses not started .....	--	21	21
Subject to frequent colds in			
Nose .....	13	10	23
Throat.....	3	4	7



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Injuries			
Head.....	2	--	2
Chest.....	2	--	2
Abdomen.....	1	--	1
Arm .....	6	5	11
Leg .....	3	2	5
Others .....	--	2	2
Operations			
Head			
Tonsils.....	29	31	60
Adenoids.....	17	1	18
Chest.....	--	--	--
Abdomen .....	5	5	10
Circumcision.....	3	--	3
Others.....	--	2	2
Immunizations			
Diphtheria.....	21	22	43
Scarlet fever.....	8	9	17
Smallpox.....	42	43	85
Typhoid fever.....	11	10	21
Tests			
Schick .....	9	8	17
Dick .....	8	6	14
Subject to frequent colds in			
Nose .....	13	10	23
Throat .....	3	4	7
Lungs.....	--	--	--
Persistently worry.....	1	1	2
Have the "blues".....	--	2	2
Arches of feet painful.....	--	5	5
Possible reasons for not taking			
Physical Education .....	--	2	2
When reading, bothered with			
Headaches .....	5	8	13
Blurring of vision.....	--	5	5
Burning of eyes.....	2	5	7
Squinting of eyes.....	1	4	5
Watering of eyes .....	2	5	7
Twitching of eyes.....	--	2	2
Diseases had			
Appendicitis .....	5	6	11
Asthma .....	2	--	2
Chickenpox .....	29	35	64
Chorea.....	--	--	--
Constipation.....	1	3	4
Diabetes.....	--	--	--
Diphtheria.....	4	1	5
Discharging ear.....	2	3	5
Dysentery.....	--	--	--
Epilepsy .....	--	--	--
Heart trouble.....	2	--	2





	<u>Men</u>	<u>Women</u>	<u>Total</u>
Hay fever.....	2	4	6
Hernia (rupture) .....	2	--	2
Infantile paralysis.....	--	--	--
Influenza .....	1	6	7
Kidney trouble .....	--	1	1
Malaria.....	1	--	1
Measles .....	42	42	84
German measles .....	9	27	36
Meningitis .....	--	--	--
Mumps .....	22	20	42
Nervous breakdown .....	--	1	1
Pleurisy .....	--	--	--
Pneumonia .....	3	7	10
Rheumatism .....	--	1	1
Scarlet Fever.....	12	10	22
Sinusitis.....	--	3	3
Smallpox .....	--	--	--
Tonsillitis.....	13	13	26
Trachoma .....	--	--	--
Tuberculosis .....	--	--	--
Typhoid fever .....	1	--	1
Undulant fever.....	--	--	--
Whooping cough .....	31	36	67
Others .....	--	2	2

## SUMMARY OF PHYSICAL EXAMINATIONS

Color of hair			
Flaxen.....	12	7	19
Reddish .....	1	2	3
Light brown.....	11	18	29
Dark brown .....	5	2	7
Brown .....	16	17	33
Black .....	8	4	12
Color of eyes			
Blue .....	19	20	39
Gray .....	2	3	5
Greenish .....	4	3	7
Hazel .....	7	5	12
Brown .....	20	17	37
Black .....	1	2	3
Vision abnormal without glasses			
Both eyes .....	22	11	33
Right eye (O.D.).....	2	4	6
Left eye (O.S.) .....	--	--	--
Corrected with glasses .....	5	7	12
Colorblind .....	--	--	--
Ears			
Right ear			
Cerumen .....	1	13	14
Perforated drum .....	--	--	--
Hearing abnormal.....	--	--	--



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Left ear			
Cerumen .....	1	8	9
Perforated drum.....	--	--	--
Hearing abnormal .....	--	--	--
Nose			
Spur.....	1	1	2
Deviation.....	4	--	4
Chronic hypertrophy.....	1	2	3
Atrophy .....	--	--	--
Tonsils			
Removed .....	25	32	57
Tags .....	3	6	9
Pathological.....	4	7	11
Teeth			
No cavities or absent.....	28	34	62
Cavities .....	4	9	13
Need cleaning.....	2	--	2
Devitalized.....	--	--	--
Absent .....	23	7	30
Skin			
Acne .....	2	14	16
Mycosis .....	2	6	8
Other skin diseases .....	--	--	--
Vaccination scar			
Arm .....	47	25	72
Leg .....	--	19	19
None .....	6	6	12
General development			
Excellent .....	--	1	1
Good .....	49	48	97
Fair .....	4	1	5
Poor.....	--	--	--
Build			
Stocky .....	2	6	8
Medium .....	35	13	48
Slender .....	16	31	47
Chest			
Flat .....	1	3	4
Funnel.....	1	2	3
Pigeon .....	--	--	--
Vertebral column			
Kyphosis .....	--	9	9
Lordosis .....	2	6	8
Scoliosis .....	--	4	4
Posture			
Excellent .....	--	--	--
Good .....	48	39	87
Fair .....	5	11	16
Poor .....	--	--	--
Restricted flexibility.....	--	1	1





	<u>Men</u>	<u>Women</u>	<u>Total</u>
Lymph nodes			
Axillary .....	4	3	7
Cervical .....	10	8	18
Epitrochlear .....	5	--	5
Inguinal .....	8	6	14
Thyroid			
Enlarged			6
Slight .....	1	5	
Moderate.....	--	--	--
Marked.....	--	--	--
Evidence of toxicity .....	--	--	--
Lungs, abnormal .....	--	--	--
Heart, abnormal.....	1	--	1
Irregular pulse.....	1	--	1
Abdomen, abnormal .....	--	--	--
Reflexes			
Patellar.....	--	2	2
Romberg .....	--	--	--
Pupillary .....	--	--	--
Penis, Circumcised .....	15	--	15
Varicocele, present.....	2	--	2
Hernia, present .....	2	--	2
Hemorrhoids, present .....	--	--	--
Flat feet			
Long Arches			
First degree .....	6	10	16
Second degree .....	9	13	22
Third degree .....	3	2	5
Anterior arches flat .....	11	16	27
Abnormalities .....	--	1	1
Had venereal disease			
Gonorrhea .....	--	--	--
Syphilis .....	--	--	--
Chancroid .....	--	--	--
Obvious defects			
Amputations .....	--	--	--
Atrophies .....	--	--	--
Unusual scars .....	3	1	4
Deformities .....	--	--	--
Urine			
Acid .....	49	43	92
Alkaline .....	--	3	3
Neutral .....	4	3	7
Albumin			
Persistent .....	--	3	3
Transitory .....	--	2	2
Unclassified .....	--	2	2
Sugar			
Persistent .....	--	--	--
Transitory .....	--	--	--
Unclassified .....	--	1	1





	<u>Men</u>	<u>Women</u>	<u>Total</u>
Weight			
Below 100	18	20	38
100-115	13	18	31
116-130	7	9	16
131-145	9	3	12
146-160	5	1	6
161-175	--	--	--
176-190	--	--	--
Height			
Below 50 inches	--	--	--
50-59 inches	7	5	12
60-62 inches	15	23	38
63-65 inches	14	21	35
66-68 inches	10	1	11
69-71 inches	5	--	5
72 inches and over	2	--	2



TWENTY-THIRD ANNUAL REPORT

APPENDIX E





## CASES ENCOUNTERED DURING THE YEAR

Abdominal pain ..	19
Abscess	
Alveolar (gumboil) .....	4
Ischioanal .....	1
Tonsillar .....	2
Unclassified .....	<u>11</u>
Acne .....	18
Adenitis	131
Cervical .....	14
Unclassified .....	<u>37</u>
Adenoids .....	51
Albuminuria	1
Accidental .....	67
Unclassified .....	<u>17</u>
Allergy .....	84
Alopecia .....	10
Amenorrhea .....	1
Anaphylaxis .....	5
Anemia .....	5
Pectoris .....	8
Angina, Vincent's .....	1
Vincent's .....	<u>47</u>
Appendicitis	48
Acute .....	13
Chronic .....	11
Unclassified .....	<u>36</u>
Arrhythmia .....	60
Arthritis .....	1
Asthma .....	33
Astigmatism .....	22
Autointoxication .....	4
Anorexia .....	4
Balanitis .....	1
Bites	1
Animal .....	14
Insect stings .....	<u>35</u>
Blepharitis .....	49
Bromidrosis .....	36
Bronchitis	11
Acute .....	62
Chronic .....	10
Unclassified .....	<u>363</u>
Bunion .....	435
Bursitis .....	6
Callosity .....	50
Cancrum, oris .....	51
Carbuncle .....	63
Caries	5
Dental .....	26
Bone .....	<u>1</u>
Catarrh .....	27
	11



Cauliflower ear .....	..	3
Cellulitis .....	..	28
Ceruminosis .....	..	325
Chalazion .....	..	4
Chapped lips .....	..	1
Chickenpox .....	..	3
Chiggers .....	..	6
Chilblain .....	..	1
Chills .....	..	1
Clavus .....	..	41
Colitis .....	..	74
Color blindness .....	..	1
Comedo .....	..	10
Concussion, Brain.....	..	1
Conjunctivitis		
Acute .....	28	
Chronic .....	1	
Unclassified .....	<u>148</u>	177
Constipation .....	..	48
Coryza .....	..	1000
Cough .....	..	8
Cramp .....	..	2
Curvature of spine, Lordosis .	..	1
Cyst		
Sebaceous .....	30	
Unclassified .....	<u>77</u>	107
Cystitis .....	..	6
Dandruff .....	..	10
Deafness .....	..	15
Dermatitis		
Chemical .....	4	
Exfoliativa .....	5	
Medicamentosa .....	3	
Occupational .....	1	
Venenata .....	16	
Vesicular .....	13	
Unclassified .....	<u>215</u>	257
Deviation, nasal septum .....	..	16
Diabetes .....	..	1
Diarrhea .....	..	22
Dry skin .....	..	2
Dysentery .....	..	8
Dysmenorrhea .....	..	31
Ecchymosis .....	..	4
Eczema .....	..	11
Edema .....	..	25
Enteritis .....	..	50
Epidermitis .....	..	1





Epidermophytosis ..	13
Epistaxis ..	47
Erysipelas ..	1
Erythema ..	8
Eustachian tube, obstruction of ..	2
Excoriation ..	9
Exostosis ..	4
Fainting (syncope) ..	6
Fatigue ..	84
Fever ..	44
Fissure	
Anus ..	10
Skin ..	3
Unclassified ..	<u>16</u>
Fistula ..	29
Flat foot (pes planus) ..	3
Flatulence (intestinal gas) ..	53
Floating cartilage ..	1
Folliculitis ..	1
Frostbite ..	9
Furunculosis ..	2
Ganglion ..	511
Gastritis ..	7
Gastroenteritis ..	30
Gingivitis ..	58
Glossitis ..	92
Glycosuria ..	6
Goiter ..	3
Granulated eye ..	1
Halitosis ..	2
Hay fever ..	8
Headache (cephalalgia) ..	27
Heart trouble ..	81
Heat rash ..	4
Hematoma ..	2
Hematuria ..	6
Hemoptysis ..	1
Hemorrhage ..	2
Hemorrhoids ..	8
Hernia	67
Inguinal ..	6
Unclassified ..	<u>23</u>
Herpes	29
Liabilis ..	12
Simplex ..	25
Zoster ..	14
Zoster Ophthalmos ..	5
Unclassified ..	<u>17</u>
Hiccough ..	73
Hordeolum ..	4
Hyperacidity ..	94
Hyperchlorhydria ..	3
Hyperhidrosis ..	2
Hypermetropia ..	3
	1





Hypertension .....	..	5
Hypertrophy, Unclassified ..	..	2
Hypochondriasis .....	..	1
Hypothyroidism .....	..	10
Hypotension .....	..	1
Impacted molar .....	..	4
Impetigo		
Contagiosa .....	21	
Unclassified .....	<u>99</u>	120
Indigestion .....	..	57
Inflammation .....	..	4
Influenza .....	..	166
Ingrown nail .....	..	51
Insomnia .....	..	17
Intestinal toxemia .....	..	1
Irritation		
Skin .....	9	
Unclassified .....	<u>18</u>	27
Kidney trouble .....	..	2
Lagrippe .....	..	232
Laryngitis .....	..	74
Lichen .....	..	10
Lipoma .....	..	2
Lumbago .....	..	19
Malformation .....	..	1
Malaria .....	..	2
Mastitis .....	..	7
Mastoiditis .....	..	1
Measles .....	..	2
Menorrhagia .....	..	9
Metatarsalgia .....	..	58
Migraine .....	..	8
Miliaria .....	..	2
Milium .....	..	2
Molluscum .....	..	1
Mucocele .....	..	1
Mumps .....	..	8
Myalgia .....	..	31
Mycosis .....	..	810
Mydriasis .....	..	1
Myopia .....	..	4
Myositis .....	..	159
Nausea .....	..	6
Nasal obstruction .....	..	7
Nervousness .....	..	11
Nephritis .....	..	4
Neuralgia		
Face .....	1	
Intercostal .....	7	
Unclassified .....	<u>5</u>	13



Neurasthenia .....	..	6
Neuritis .....	..	31
Neurosis .....	..	9
Nevus .....	..	19
Nocturia .....	..	2
Nocturnal emissions .....	..	1
Obesity .....	..	4
Obstruction, eustachian tubes ..	..	6
Orchitis .....	..	2
Otalgia .....	..	20
Otitis		
Externa .....	18	
Interna .....	7	
Media .....	<u>75</u>	100
Overweight .....	..	25
Over-work .....	..	1
Painful		
Arch .....	13	
Knee .....	5	
Miscellaneous .....	<u>43</u>	61
Palpitation .....	..	1
Papilloma .....	..	6
Paronychia .....	..	34
Pediculosis		
Pubis .....	23	
Unclassified .....	<u>4</u>	27
Perichondritis .....	..	1
Periostitis .....	..	10
Pharyngitis		
Acute .....	318	
Chronic .....	2	
Naso .....	135	
Unclassified .....	<u>1577</u>	2032
Phimosis .....	..	2
Pityriasis .....	..	22
Pleurisy .....	..	46
Pneumonia .....	..	1
Poisoning		
Ivy .....	17	
Ptomaine .....	6	
Unclassified .....	<u>3</u>	26
Polypus, nasla .....	..	1
Polyuria .....	..	1
Poor posture .....	..	1
Pruritis .....	..	5
Psoriasis .....	..	7
Psychosis .....	..	1
Pterygium .....	..	2
Pustule .....	..	54
Pyorrhea .....	..	4





Proctitis .....	..	1
Quinsy .....	..	1
Rales .....	..	4
Regurgitation, mitral ....	..	2
Rheumatism .....	..	17
Rhinitis		
Acute .....	129	
Chronic .....	11	
Unclassified .....	<u>315</u>	455
Sarcoma .....	..	1
Scabies .....	..	45
Scarlet fever .....	..	1
Sciatica .....	..	7
Scoliosis .....	..	6
Seborrhea .....	..	7
Septicemia .....	..	2
Sinusitis .....	..	268
Soreness, muscle .....	..	3
Spasm .....	..	2
Stenosis, mitral .....	..	1
Stiff neck .....	..	1
Stomatitis		
Aphthous .....	78	
Unclassified .....	<u>35</u>	113
Sunburn .....	..	6
Synovitis .....	..	4
Swollen		
Gland .....	1	
Miscellaneous .....	<u>6</u>	7
Tachycardia .....	..	10
Tenosynovitis .....	..	19
Testicle, undescended ....	..	1
Thyroid, enlarged .....	..	2
Tinea		
Circinata .....	12	
Cruris .....	105	
Tonsurans .....	1	
Versicolor .....	1	
Unclassified .....	<u>208</u>	327
Tinnitus aurium .....	..	3
Tonsil, enlarged .....	..	2
Tonsillitis		
Acute .....	35	
Chronic .....	8	
Unclassified .....	<u>90</u>	133
Toothache .....	..	53
Torticollis .....	..	38
Tracheitis .....	..	25
Trachoma .....	..	1
Tuberculosis .....	..	1
Tumor .....	..	7



Ulcer .....	..	32
Underweight .....	..	55
Ureitis .....	..	6
Urethritis, unclassified ..	..	15
Urticaria .....	..	59
Vaccinia .....	..	40
Varicocele .....	..	8
Varicose veins .....	..	4
Verruca (wart) .....	..	366
Vertigo .....	..	7
Vesicle .....	..	8
Vomiting .....	..	1
Weak ankle .....	..	5
Whitlow .....	..	6
Wound .....	..	28

## INJURIES, WOUNDS, SPRAINS

Abrasion		
Ankle .....	7	
Arm .....	18	
Back .....	3	
Elbow .....	10	
Eyelid .....	2	
Face .....	9	
Finger .....	50	
Foot .....	16	
Hand .....	28	
Head .....	5	
Heel .....	3	
Knee .....	59	
Leg .....	37	
Nose .....	4	
Shoulder .....	4	
Skin .....	5	
Thigh .....	4	
Toe .....	6	
Miscellaneous .....	15	
Unclassified .....	<u>47</u>	332
Avulsion, nail .....	..	1
Blister		
Hand .....	13	
Heel .....	83	
Foot .....	50	
Toe .....	24	
Miscellaneous .....	17	
Unclassified .....	<u>29</u>	216



## Burn

Acid .....	19		
Alkali .....	1		
Chemical .....	12		
Electrical .....	3		
Miscellaneous .....	4		
Unclassified .....	<u>2</u>	43	
Arm .....	13		
Eye .....	6		
Face .....	9		
Finger .....	36		
Foot .....	3		
Hand .....	34		
Head .....	1		
Leg .....	4		
Mouth .....	2		
Toe .....	1		
Wrist .....	4		
Miscellaneous .....	11		
Unclassified .....	<u>50</u>	<u>174</u>	215
Contusion			
Arm .....	11		
Back .....	12		
Bone .....	1		
Buttocks .....	2		
Chest .....	12		
Ear .....	6		
Eye .....	15		
Face .....	3		
Finger .....	53		
Foot .....	20		
Forehead .....	4		
Groin .....	2		
Head .....	5		
Hand .....	24		
Heel .....	16		
Jaw .....	1		
Joint			
Ankle .....	12		
Elbow .....	21		
Hip .....	2		
Knee .....	44		
Wrist .....	<u>4</u>	83	
Leg .....	34		
Lip .....	3		
Muscle .....	1		
Neck .....	3		
Nose .....	28		
Scalp .....	1		
Shoulder .....	7		



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Contusion (cont'd)		
Spine .....	4	
Testicle .....	2	
Thigh .....	6	
Toe .....	39	
Miscellaneous .....	22	
Unclassified .....	<u>17</u>	437
Dislocation		
Cartilage .....	2	
Elbow .....	1	
Finger .....	1	
Knee .....	1	
Shoulder .....	<u>4</u>	9
Foreign body		
Arm .....	1	
Ear .....	3	
Eye .....	153	
Finger .....	35	
Hand .....	6	
Throat .....	1	
Miscellaneous .....	16	
Unclassified .....	<u>9</u>	224
Fracture		
Bones		
Ankle .....	2	
Clavicle .....	1	
Fibula .....	1	
Finger .....	10	
Foot .....	1	
Leg .....	1	
Nasal septum .....	3	
Rib .....	11	
Toe .....	2	
Wrist .....	8	
Miscellaneous .....	1	
Unclassified .....	<u>5</u>	46
Incisions		
Finger .....	7	
Leg .....	1	
Scalp .....	2	
Wound .....	23	
Unclassified .....	<u>5</u>	38
Infections		
Abrasion .....	6	
Ankle .....	1	
Arm .....	7	
Blister .....	14	
Clavus .....	7	
Comedo .....	2	
Cyst .....	22	



## Infections (cont'd)

Ear. ....	18	
Elbow. ....	1	
Eye. ....	5	
Eyelid. ....	2	
Face. ....	14	
Finger ....	107	
Foot ....	49	
Gum ....	3	
Hand ....	25	
Head ....	3	
Heel ....	7	
Knee ....	5	
Leg ....	18	
Mouth ....	4	
Nasal ....	15	
Neck ....	2	
Respiratory ....	2	
Skin ....	9	
Toe ....	93	
Tonsils ....	11	
Tooth ....	17	
Verruca ....	2	
Wound ....	2	
Wrist ....	2	
Miscellaneous ....	32	
Unclassified ....	<u>12</u>	519
Injured		
Ankle ....	7	
Arm ....	1	
Back ....	6	
Chest ....	2	
Elbow ....	10	
Eye ....	1	
Finger ....	19	
Foot ....	7	
Hand ....	4	
Knee ....	12	
Leg ....	9	
Nose ....	5	
Rib ....	8	
Shoulder ....	9	
Skull ....	2	
Toe ....	6	
Vertebrae ....	2	
Wrist ....	2	
Miscellaneous ....	12	
Unclassified ....	<u>5</u>	129





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APPENDIX F



Lacerations

82.

Arm .....	2
Chin .....	1
Ear .....	1
Eye .....	7
Elbow .....	3
Face .....	3
Finger .....	114
Foot .....	6
Hand .....	31
Head .....	6
Knee .....	7
Leg .....	7
Lips .....	9
Nose .....	5
Scalp .....	4
Toe .....	4
Tongue .....	1
Wrist .....	1
Wound .....	21
Miscellaneous .....	12
Unclassified .....	14
Puncture, wound .....	..
Rupture .....	..

259  
18  
.1

Sprain	
Ankle .....	265
Arm .....	2
Back .....	27
Elbow .....	5
Finger .....	34
Foot .....	45
Hand .....	3
Knee .....	33
Leg .....	1
Neck .....	1
Sacroiliac .....	24
Shoulder .....	9
Tendon .....	2
Thumb .....	33
Toe .....	5
Wrist .....	57
Miscellaneous .....	3
Unclassified .....	6

555



## Strain

Ankle .....	30	
Arm .....	9	
Back .....	17	
Eye .....	81	
Foot .....	15	
Knee .....	23	
Leg .....	1	
Muscle .....	67	
Neck .....	1	
Sacroiliac .....	19	
Shoulder .....	8	
Thumb .....	2	
Wrist .....	14	
Miscellaneous .....	7	
Unclassified .....	<u>2</u>	..... <u>296</u>

GRAND TOTAL - - - 3295





## RECAPITULATION

Pharyngitis .....	2032
Coryza.....	1000
Mycosis.....	810
Furunculosis.....	511
Rhinitis .....	455
Bronchitis.....	435
Verruca .....	366
Tinea .....	327
Ceruminosis.....	325
Sinusitis .....	268
Dermatitis .....	257
LaGrippe.....	232
Conjunctivitis.....	177
Influenza .....	166
Myositis .....	159
Acne .....	131
Impetigo .....	120
Stomatitis.....	113
Cyst.....	107
Otitis.....	100
Hordeolum.....	94
Gingivitis .....	92
Albuminuria .....	84
Fatigue.....	84
Headache.....	81
Colitis .....	74
Laryngitis.....	74
Herpes.....	73
Hemorrhoids.....	67
Cancrum, oris.....	63
Painful arch, knee, etc.....	61
Urticaria .....	59
Gastroenteritis .....	58
Metatarsalgia .....	58
Indigestion .....	57
Underweight .....	55
Pustule .....	54
Flat foot.....	53
Toothache .....	53
Ingrown nail .....	51
Adenitis.....	51
Callosity.....	51
Bursitis .....	50
Enteritis .....	50
Bites .....	49
Angina .....	48



Constipation .....	48
Epistaxis.....	47
Pleurisy .....	46
Scabies .....	45
Fever .....	44
Clavus .....	41
Vaccinia.....	40
Torticollis .....	38
Blepharitis .....	36
Paronychia .....	34
Arthritis .....	33
Ulcer .....	32
Neuritis .....	31
Myalgia .....	31
Dysmenorrhea.....	31
Gastritis.....	30
Fissure.....	29
Hernia .....	29
Cellulitis .....	28
Wound .....	28
Skin irritation.....	27
Caries .....	27
Hay fever.....	27
Pediculosis .....	27
Tracheitis .....	26
Poisoning .....	25
Edema .....	25
Overweight .....	25
Pityriasis .....	22
Asthma .....	22
Diarrhea .....	22
Otalgia .....	20
Lumbago .....	19
Tenosynovitis .....	19
Abdominal pain .....	19
Nevus .....	19
Abscess .....	18
Rheumatism .....	17
Insomnia .....	17
Deviation, nasal septum .....	16
Deafness .....	15
Urethritis .....	15
Neuralgia .....	13
Epidermophytosis .....	13
Eczema.....	11
Bromidrosis .....	11
Catarrh.....	11
Nervousness .....	11
Allergy.....	10





Comedo .....	10
Dandruff .....	10
Hypothyroidism .....	10
Lichen.....	10
Periostitis .....	10
Tachycardia .....	10

#### NINE CASES:

Excoriation, folliculitis, menorrhagia, neurosis.

#### EIGHT CASES:

Anemia, cough, dysentery, erythema, halitosis, hemorrhage, migraine, mumps, varicocele, vesicle, eustachian tube obstruction.

#### SEVEN CASES:

Ganglion, mastitis, nasal obstruction, psoriasis, sciatica, seborrhea, tumor, vertigo, swollen face.

#### SIX CASES:

Bunion, chiggers, cystitis, fainting, glossitis, hematoma, nausea, neurasthenia, papilloma, scoliosis, sunburn, uritis, Whitlow.

#### FIVE CASES:

Amenorrhea, anaphylaxis, carbuncle, hypertension, pruritis, weak ankle.

#### FOUR CASES:

Astigmatism, autointoxication, chalazion, ecchymosis, Exostosis, heart trouble, hiccough, impacted molar, inflammation, myopia, nephritis, obesity, pyorrhea, rales, synovitis, varicose veins.

#### THREE CASES:

Cauliflower ear, chickenpox, fistula, glycosuria, hyperacidity, hyperhidrosis, muscle soreness, tinnitus aurium.

#### TWO CASES:

Cramp, dry skin, frostbite, granulated eye, heat rash, hemoptysis, hyperchlorhydria, hypertrophy, kidney trouble, lipoma, malaria, measles, milium, molluscum, nocturia, orchitis, phimosis, pterygium, regurgitation - mitral, septicemia, spasm, enlarged thyroid, enlarged tonsils.



## ONE CASE:

Adenoids, alopecia, arrhythmia, anorexia, balanitis, chapped lips, chills, chilblain, color blindness, brain concussion, curvature of spine, diabetes, epidermitis, erysipelas, flatulence, floating cartilage, goitre, hematuria, hypermetropia, hypochondriasis, hypotension, intestinal toxemia, malformation, mastoiditis, molluscum, mucocoele, mydriasis, nocturnal emissions, overwork, palpitation, perichondritis, pneumonia, polypus, polyuria, poor posture, psychosis, proctitis, quinsy, sarcoma, scarlet fever, stenosis-mitral, stiffneck, testicle undescended, trachoma, tuberculosis, vomiting.



## GENERAL SCIENCE

No. of teachers who taught General Science and nothing else - 620

Gen. Sc., Biology.....	157
Gen. Sc., Biology, Agriculture.....	4
Gen. Sc., Biology, Civics .....	1
Gen. Sc., Biology, English .....	1
Gen. Sc., Biology, History.....	2
Gen. Sc., Biology, Physiography.....	3
Gen. Sc., Biology, Zoology .....	1
Gen. Sc., Biology, Botany, Zoology, Geography.....	1
Gen. Sc., Chemistry .....	57
Gen. Sc., Chemistry, Astronomy.....	1
Gen. Sc., Chemistry, Biology .....	2
Gen. Sc., Chemistry, Home Economics.....	2
Gen. Sc., Chemistry, Home Economics, P. E.....	1
Gen. Sc., Chemistry, Music .....	1
Gen. Sc., Chemistry, P. E. ....	1
Gen. Sc., Chemistry, Zoology .....	1
Gen. Sc., Chemistry, Zoology, Botany .....	1
Gen. Sc., Chemistry, Botany .....	3
Gen. Sc., Chemistry, Speech, Dramatics, English.....	1
Gen. Sc., Math.....	89
Gen. Sc., Math., Physics.....	19
Gen. Sc., Math., Physics, Chem.....	7
Gen. Sc., Math., Physics, English, Math.....	1
Gen. Sc., Math., Physics, Home Ec. ....	1
Gen. Sc., Math., Physics, Physiography.....	1
Gen. Sc., Math., Physics, Biology .....	1
Gen. Sc., Math., Biology .....	4
Gen. Sc., Math., Chemistry .....	5
Gen. Sc., Math., English .....	2
Gen. Sc., Math., English, Biology.....	1
Gen. Sc., Math., English, Latin .....	1
Gen. Sc., Math., English, Latin, History .....	1
Gen. Sc., Math., History .....	3
Gen. Sc., Math., History, Economics.....	1
Gen. Sc., Math., History, Civics .....	1
Gen. Sc., Math., Geography .....	1
Gen. Sc., Math., Geometry, Algebra .....	1
Gen. Sc., Math., Home Ec., Biology.....	1
Gen. Sc., Math., Mechanical Drawing .....	1
Gen. Sc., Math., Physiography .....	1
Gen. Sc., Math., P. E. ....	7
Gen. Sc., Math., Social Science .....	1
Gen. Sc., Physics.....	79
Gen. Sc., Physics, Chemistry .....	78
Gen. Sc., Physics, Chemistry, Agriculture .....	1
Gen. Sc., Physics, Chemistry, Band.....	4
Gen. Sc., Physics, Chemistry, P. E. ....	4
Gen. Sc., Physics, Chemistry, Physiology .....	1
Gen. Sc., Physics, Chemistry, Principal .....	1





Gen. Sc., Physics, Agriculture.....	2
Gen. Sc., Physics, Biology .....	9
Gen. Sc., Physics, Biology, Agriculture.....	1
Gen. Sc., Physics, Biology, Science .....	1
Gen. Sc., Physics, Biology, Zoology .....	1
Gen. Sc., Physics, Civics, P. E. ....	1
Gen. Sc., Physics, Civics, Algebra, Geometry .....	2
Gen. Sc., Physics, English .....	1
Gen. Sc., Physics, Hygiene, Business Law .....	1
Gen. Sc., Physics, Music .....	1
Gen. Sc., Physics, Sociology .....	1
Gen. Sc., Physics, Superintendent .....	2
Gen. Sc., P. E. ....	27
Gen. Sc., P. E., English .....	1
Gen. Sc., P. E., History .....	2
Gen. Sc., P. E., Home Economics .....	3
Gen. Sc., P. E., Home Economics, English .....	1
Gen. Sc., P. E., History, Biology .....	2
Gen. Sc., P. E., Hygiene .....	2
Gen. Sc., P. E., Physiology .....	1
Gen. Sc., P. E., Social Science .....	1
Gen. Sc., Agriculture .....	4
Gen. Sc., Art .....	3
Gen. Sc., Botany .....	4
Gen. Sc., Business Law .....	3
Gen. Sc., Civics .....	1
Gen. Sc., Commerce .....	1
Gen. Sc., Commercial Geography .....	4
Gen. Sc., Coach .....	1
Gen. Sc., Economics .....	1
Gen. Sc., Economics, Geography, Commerce .....	1
Gen. Sc., Electric Shop .....	1
Gen. Sc., English .....	25
Gen. Sc., English, Civics .....	1
Gen. Sc., English, Foreign Language .....	1
Gen. Sc., English, French .....	1
Gen. Sc., English, Geography, Spanish .....	1
Gen. Sc., English, German .....	1
Gen. Sc., English, Hygiene .....	1
Gen. Sc., General Business .....	2
Gen. Sc., Geography .....	1
Gen. Sc., German .....	1
Gen. Sc., History.....	17
Gen. Sc., History, Economics .....	2
Gen. Sc., History, Economical Geography, Civics .....	1
Gen. Sc., History, Manual Training .....	2
Gen. Sc., History, P. E. ....	1
Gen. Sc., History, Psychology .....	1
Gen. Sc., Home Economics .....	52
Gen. Sc., Hygiene .....	3
Gen. Sc., Geography, Algebra .....	1
Gen. Sc., Industrial Arts .....	2
Gen. Sc., Journalism .....	1
Gen. Sc., Latin .....	4



Gen. Sc., Manual Training.....	6
Gen. Sc., Music .....	3
Gen. Sc., Principal.....	1
Gen. Sc., Physical Geography.....	1
Gen. Sc., Physiology .....	1
Gen. Sc., Physiology, Physiography.....	1
Gen. Sc., Social Science .....	3
Gen. Sc., Zoology .....	12
Gen. Sc., Zoology, Botany .....	5
Gen. Sc., Zoology, Commercial Law.....	1
Gen. Sc., Zoology, Physiology .....	1







No. of teachers who taught Biology and nothing else	-	607
Biology, Chemistry		23
Biology, Chemistry, Agriculture		2
Biology, Chemistry, English		2
Biology, Chemistry, Gen. Sc.		13
Biology, Chemistry, Gen. Sc., Com. Geography		1
Biology, Chemistry, Gen. Sc., Hygiene, P. E.		2
Biology, Chemistry, Gen. Sc., Physiology		8
Biology, Chemistry, Gen. Sc., Physics		8
Biology, Chemistry, History		1
Biology, Chemistry, Math.		2
Biology, Chemistry, Math., Gen. Sc.		1
Biology, Chemistry, Math., Physics		3
Biology, Chemistry, Physics		23
Biology, Chemistry, Physics, Latin		1
Biology, Chemistry, Physics, P. E.		2
Biology, Chemistry, Physics, Physiology		2
Biology, Gen. Sc., Agriculture		4
Biology, Gen. Sc., Band		1
Biology, Gen. Sc., Botany		1
Biology, Gen. Sc., Civics, History		1
Biology, Gen. Sc., Coach		2
Biology, Gen. Sc., Commerce		1
Biology, Gen. Sc., Com. Geography		3
Biology, Gen. Sc., English		3
Biology, Gen. Sc., English, Music		1
Biology, Gen. Sc., English, Physics		2
Biology, Gen. Sc., History		7
Biology, Gen. Sc., History, Latin, Math.		1
Biology, Gen. Sc., History, P. E.		1
Biology, Gen. Sc., History, Social Science		2
Biology, Gen. Sc., Home Economics		5
Biology, Gen. Sc., Latin		4
Biology, Gen. Sc., Math.		5
Biology, Gen. Sc., Physics		13
Biology, Gen. Sc., Physics, Agriculture		1
Biology, Gen. Sc., Physics, Dramatics		1
Biology, Gen. Sc., Physics, Manual Training		1
Biology, Gen. Sc., Physics, Math.		1
Biology, Gen. Sc., Physics, P. E.		1
Biology, Gen. Sc., P. E.		7
Biology, Gen. Sc., Zoology		1
Biology, History		1
Biology, History, Civics		1
Biology, History, English		2
Biology, History, English, Latin		1
Biology, History, Geography, Latin, Civics, Physical Geog., Physiology, Economics		1
Biology, History, Latin		1
Biology, History, Math.		1
Biology, History, Physiology		1



Biology, History, Psychology .....	1
Biology, History, Social Science .....	1
Biology, History, Speech .....	2
Biology, History, Zoology .....	1
Biology, English .....	22
Biology, English, Com. Arith., Com. Geography .....	4
Biology, English, Dramatics .....	1
Biology, English, Latin .....	1
Biology, English, Home Economics .....	2
Biology, English, P. E. ....	1
Biology, English, Physics .....	1
Biology, Math. ....	24
Biology, Math., English .....	2
Biology, Math., Hygiene .....	2
Biology, Math., Music .....	1
Biology, Math., Physics .....	5
Biology, Math., Physiology .....	1
Biology, Math., Physiology, Economical Geography .....	1
Biology, Math., Zoology .....	1
Biology, P. E. ....	43
Biology, P. E., Commerce .....	4
Biology, P. E., English, Home Economics .....	1
Biology, P. E., Geometry, Physics .....	1
Biology, P. E., History .....	3
Biology, P. E., History, Civics, Hygiene .....	1
Biology, P. E., Hygiene, Physics, Physiology .....	1
Biology, P. E., Manual Training .....	3
Biology, P. E., Math. ....	3
Biology, P. E., Physiology .....	5
Biology, P. E., Hygiene, Geometry .....	1
Biology, Agriculture .....	1
Biology, Band .....	1
Biology, Bookkeeping .....	2
Biology, Bookkeeping, Typing, Shorthand .....	1
Biology, Botany .....	9
Biology, Chemistry, Physics .....	23
Biology, Economics .....	4
Biology, Economics, Sociology .....	1
Biology, Geography .....	1
Biology, Home Economics .....	18
Biology, Latin .....	5
Biology, Manual Training .....	2
Biology, Manual Training, Coach .....	1
Biology, Music .....	5
Biology, Music, Sciences .....	1
Biology, Photography .....	1
Biology, Physics .....	24
Biology, Physiography .....	1
Biology, Physiography, Manual Training .....	1
Biology, Physiology .....	7
Biology, Physiology, Business Law .....	1
Biology, Physiology, Hygiene .....	1
Biology, Physiology, Physiography .....	1





Biology, Physiology, Physics .....	1
Biology, Physiology, Spanish .....	2
Biology, Social Sciences .....	2
Biology, Spanish .....	2
Biology, Superintendent .....	1





No. of teachers who taught Hygiene and nothing else	53
Hygiene, Algebra, Gen. Sc., Physics	1
Hygiene, Algebra, Geometry, Coaching	1
Hygiene, Biology	8
Hygiene, Biology, Botany, Zoology	1
Hygiene, Biology, History	1
Hygiene, Biology, Physics	1
Hygiene, Biology, Physiology	1
Hygiene, Chemistry	2
Hygiene, Chemistry, Physics	4
Hygiene, Gen. Sc.	17
Hygiene, Gen. Sc., Physiology	1
Hygiene, Gen. Sc., Civics	1
Hygiene, Math.	13
Hygiene, Math., Chemistry	1
Hygiene, Math., Chemistry, Biology	1
Hygiene, Math., English	1
Hygiene, Math., German	1
Hygiene, Math., Industrial Arts	1
Hygiene, Math., Physics	2
Hygiene, Math., Science	250
Hygiene, P. E.	2
Hygiene, P. E., Biology	1
Hygiene, P. E., Coach	1
Hygiene, P. E., Economics	1
Hygiene, P. E., History	1
Hygiene, P. E., History, Civics	1
Hygiene, P. E., History, English	2
Hygiene, P. E., History, Latin	1
Hygiene, P. E., History, Vocations	2
Hygiene, P. E., Home Economics	1
Hygiene, P. E., Home Economics, English	4
Hygiene, P. E., Manual Training	13
Hygiene, P. E., Math.	2
Hygiene, P. E., Physiology	3
Hygiene, P. E., Social Science	1
Hygiene, P. E., Zoology	2
Hygiene, Agriculture	1
Hygiene, Bookkeeping	1
Hygiene, Civics	1
Hygiene, Civics, Typing, Shorthand	1
Hygiene, Coaching	2
Hygiene, Commercial subjects	1
Hygiene, Economics	3
Hygiene, English	1
Hygiene, English, Geography	1
Hygiene, English, History	1
Hygiene, English, Latin	4
Hygiene, History	6
Hygiene, Home Economics	1
Hygiene, Music	3
Hygiene, Physics, Typing, Shorthand	3
Hygiene, R. O. T. C.	1
Hygiene, School Nursing	2
Hygiene, Superintendent	



No. of teachers who taught Physiology and nothing else -	95
Physiology, Biology	34
Physiology, Biology, Business Training	1
Physiology, Biology, Chemistry, Band	1
Physiology, Biology, Chemistry, Physics	1
Physiology, Biology, Physics	2
Physiology, Biology, Physics, Agriculture	1
Physiology, Biology, Physics, Botany, Zoo., Physiog., Chem.	1
Physiology, Biology, Physiography, Commerce	1
Physiology, Chemistry	4
Physiology, Chemistry, Math.	1
Physiology, Chemistry, Physics	7
Physiology, Chemistry, Zoology	1
Physiology, Chemistry, Zoology, Botany	1
Physiology, Math.	12
Physiology, Math., German, English	1
Physiology, Math., Geography	1
Physiology, Math., Physics	1
Physiology, Math., Civics, English	2
Physiology, Math., Physics	1
Physiology, Math., Physics, Economics	1
Physiology, Math., Social Science	1
Physiology, P. E.	36
Physiology, P. E., Biology	1
Physiology, P. E., Chemistry, Physics, Math.	1
Physiology, P. E., Civics	1
Physiology, P. E., Civics, Commerce	1
Physiology, P. E., Commercial Geography	2
Physiology, P. E., Economics, History, Social Science	2
Physiology, P. E., Geometry, Physiography	1
Physiology, P. E., General Science	1
Physiology, P. E., Home Economics	2
Physiology, P. E., Home Economics, Commerce	3
Physiology, P. E., Physiography	1
Physiology, P. E., Physiography, Biology	3
Physiology, P. E., Physiography, Vocations	1
Physiology, Agriculture	4
Physiology, Commerical Arithmetic	2
Physiology, Commercial Geography	2
Physiology, Civics.	1
Physiology, Civics, Geography, History	1
Physiology, Civics, History	1
Physiology, Civics, History, Economics, Gen. Business	1
Physiology, Civics, Sociology	1
Physiology, Economics, Botany	1
Physiology, Economics, Social Science	1
Physiology, English	10
Physiology, English, Commerce	1
Physiology, English, Geography	3
Physiology, English, Industrial Geography	1
Physiology, English, Speech, Geography	1
Physiology, Foreign Language	2
Physiology, First Aid	2
Physiology, General Science	19







Physiology, General Science, Math.	1
Physiology, General Science, Physiology	1
Physiology, Geography	2
Physiology, Geometry	1
Physiology, History	4
Physiology, Home Economics	16
Physiology, Home Economics, Sociology	1
Physiology, Hygiene	5
Physiology, Latin	1
Physiology, Latin, Geology	1
Physiology, Latin, History	1
Physiology, Language, History	1
Physiology, Language, Religion	1
Physiology, Manual Training	1
Physiology, Music	1
Physiology, Physics	5
Physiology, Physics, Commercial Geography	1
Physiology, Physics, History, Economics	1
Physiology, Physics, Shorthand, Typing	1
Physiology, Physical Geography	6
Physiology, Physical Geography, Commerce	1
Physiology, Physiography	19
Physiology, Physiography, Biology	1
Physiology, Physiography, Coach	1
Physiology, Physiography, Commercial Geography	1
Physiology, Physiography, English	1
Physiology, Physiography, Hygiene	1
Physiology, Physiography, Home Economics	4
Physiology, Physiography, Physics, Chemistry	2
Physiology, Religion	2
Physiology, Spanish	1
Physiology, Sociology	4
Physiology, Zoology, Botany	1
Physiology, Zoology, Botany, Hygiene	1
Physiology, Zoology	1















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